

Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200

PO No	Supplier	lter No	No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit
0038785	ACI001-VC		1 1	Net 30	MT-A513-T- 1.000W0:120	A513 Seamless Altoy Steel Round Tubing 1""dia. x 0.120"" Wall				100	1/17/2018	100	1	3033394	Stock	1/18/2018	\$ 2.21/ft
		2			MT-A513-T- 9.0750W0.126	A513 Seamless Alloy Steel Round Tubing 0.875"dia. x 0.120"" Wall				60		60	1	9083395	Stock	1/18/2018	\$ 2.06 / ft
		3			M1018R1 256	1018 Round Bar 1.250 : MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108				20		20	N	\$03339	Stock	1/18/2018	\$ 4.17/fi
		4			MINORAL VSE	304 SS Roundbar .750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft			=	96		96		5033397	Stock	1/18/2018	\$ 4.30 / ft
X	-	5	-	4	MT-4140QT-R0.750	AISI 4140 Quenched &Tempered Steel Round Bar 0.750** Dia.				20		20	A	5033398	lock	1/18/2018	\$ 2.49/ft
		6		Reviews .	M6061T680 250X01.000	5061-T6 Bar .250 X 1.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive fi						20		1003394	Stock	1/18/2018	\$ 0.79 / ft
		7				606176 Bar 0.250 X 5.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS-QQ- A-225/8 OR AMS-QQ- A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 DR ASTM 8211 OR ASTM B221 receive ft						20	S 8	633400 E	Stock 1	/18/2018 \$	5 3.76 / ft
X		8			vailing for platter Bov	506176 Bar 0.250 X 6.250 MATERIAL: 6061- [67/651/T6510/T6511/T62 LLUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-225/8 OR AMS-QQ-225/8 OR AMS-QQ-20/8 OR AMS-QQ-20/8 OR AMS-QQ-20/8 OR AMS-QQ-20/8 OR AMS-QQ-20/8 OR AMS B211 OR STM B221 receive ft				24		24	Sco	033401 S	tock 1	18/2018 \$	9.62/ft
1000		9		a.vi	80617680.375X02.000 6 N T A A A A		*			40		40	50	3340 St	ock 1/	18/2018 S 2	2.30/R
	_ (10		M6	AL OF	061-T6 Bar .500 X 2.50 : ATERIAL: 6061- 1/T651/T6510/T6511/T62 LUMINUM BAR PER 0-A-225/8 OR AMS-QQ- 225/8 OR AMS 17/4128/4115/4116 OR 0-A-200/8 OR AMS-QQ- 200/8 OR AMS 4160 R ASTM B211 OR 1TM B221 receive ft				20		20	503	33403 Sto	ock 1/1	8/2018 \$ 3	76/ft

	Supplie	lten No			Description	For Part No	Project	Equipment ID	Order	Due Date	Received	Accounting Job No	Serial	Status	Receive Date	Price/Uni
0387	85	1			6061-T6 Bar .500 X 6.00: MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive f				40		. 40	V	3033404	Stock	1/18/2018	\$ 9.17/fi
		12		M69811680.600X1.500	8061T6 Bar 0.500 X 1.500 MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 DR ASTM B211 OR				20		20		S03340	Stock	1/18/2018	\$ 2.30 / ft
		13		M6061T6B0.500X12.000					12		12	V	603340	Stock	1/18/2018	5 23.01 / ft
		(14)	h	460617681.000X04.000 6 M							12		0334 yr S	Stock 1	/18/2018 S	12.77 / ft
	_	15	M	AL OC A	61-T6 Bar 1.00 X 12.00 AATERIAL: 6061- (T651/T6510/T6511/T62 UMINUM BAR PER 2-A-225/8 OR AMS-QQ-225/8 OR AMS 47/4128/4115/4116 OR 2-A-200/8 OR AMS-QQ-200/8 OR AMS-QQ-						12	So	33408 S	tock 1/	18/2018 S	14.59 / ft
		16		T6/ ALI QQ A-2 411 QQ A-2 OR ASI	TERIAL: 6061- T651/T6510/T6511/T62 JMINUM BAR PER -A-225/8 OR AMS-QQ- 25/8 OR AMS 7/4128/4115/4116 OR -A-200/8 OR AMS-QQ- 00/8 OR AMS 4160 ASTM 8211 OR				20		20	So.	33409 St	ock 1/1	8/2018 5 4	89/fi
		17		76/1 APU QQ- 42/2 4117 QQ- A-2/0 QR- AST	TERIAL: 6061- 1661/T6510/T6511/T62 MINUM BAR PER A-225/8 OR AMS-QQ- 15/8 OR AMS- 1/4128/4115/4116 OR A-200/8 OR AMS-QQ- 10/8 OR AMS 4160 ASTM B211 OR M B221 receive fi				24		24	\$03	3410 Sto	ock 1/18	8/2018 \$ 1/	36/ft
		18	W	1.950 TE/T ALUI QQ-/ A-22 4117 QQ-/ A-200 OR A	T6 Bar .375 X 1.00 : ERIAL: 6061- 651/T6510/T6511/T62 MINUM BAR PER A-225/8 OR AMS-QQ- 5/8 OR AMS 4/128/4/15/4/16 OR A-200/8 OR AMS 4/160 STM B211 OR M B221 receive ft				60		60	\$033	Stor	Ck 1/18	/2018 S 1.1	5/ft

PO No	Supplier	140	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial	Status	Receive Date	Price/Unit
	X	19	_	NO, certs	6061-T6 Bar .750 X 3.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER 20-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-2200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				20		240		S033412	Stock	1/18/2018	S 8.37 / ft
		20			6061-T6 Bar 1.50 X 1.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QC-A-225/8 OR AMS-QQ- A-225/8 OR AMS-QQ- A-220/8 OR AMS-QQ- A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 DR ASTM B211 OR ASTM B211 OR						20		5033415	Stock	1/18/2018	\$ 6.78 / ft
		21	l. lev	\(\text{A} \)	061-T6 Bar 3.00 X 1.50 : MATERIAL: 6061- 6/T651/T6510/T6511/T62 MUMINUM BAR PER A-225/8 OR AMS-QQ225/8 OR AMS 117/4128/4115/4116 OR Q-A-200/8 OR AMS-QQ200/8 OR AMS 4160 R ASTM B211 OR STM B221 receive ft				12		12	US.	033414 S	Stock 1	/18/2018 \$	5 14.02 / ft
								Total:	672	-	672		-	_		

Plex 1/18/2018 12:50 PM Dart Dubois Pascal



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO038785

Tel (613) 632-5200

Supplier:

ACI001-VC Acier Ouellette Inc.

935 Boul. Du Havre Valleyfield

QC

J6S 5L1 Canada Phone: 800 667 4248

Fax: 450 377 5696

PO No:

PO038785

PO Date:

1/15/18

Due Date:

1/17/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: quotation sou0079984

	T _a		Items						
Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extender Price
1.000W0.120		A513 Seamless Alloy Steel Round Tubing 1"dia x 0.120" Wall	Firmed	1/17/18				,/	
MT-A513-T- 0.8750W0.120		Steel Round Tubing	Firmed	1/17/18	60 ft	0 ft	60 ft	\$2.0595/ft	\$123.57
M1018R1.250		: MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM	Firmed	1/17/18	20 ft	0ft 20	20 ft	\$4.168/ft	\$83.36
M304RO.750	3	MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE	Firmed	1/17/18	96 ft	0 ft	96 ft	\$4.295/ft	\$412.32
MT-4140QT-R0.750	8	Tempered Steel Round	Firmed	1/17/18	20 ft	20 ft	20 ft	\$2.4925/ft	\$49.85
M6061T6B0.250X01.000	1: I A Q A: 4' Q A- O A- O	MATERIAL: 6061- 6/T651/T6510/T6511/T62 LUMINUM BAR PER Q-A-225/8 OR AMS-QQ- -225/8 OR AMS 117/4128/4115/4116 OR Q-A-200/8 OR AMS-QQ- -200/8 OR AMS 4160 R ASTM B211 OR	Firmed	1/17/18	20 ft	0 ft DAS 11	20 ft	\$0.7935/ft	\$15.87
	Part MT-A513-T- 1.000W0.120 MT-A513-T- 0.8750W0.120 M1018R1.250 M304R0.750	Part Part No MT-A513-T- 1.000W0.120 MT-A513-T- 0.8750W0.120 M1018R1.250 M304R0.750 M7-4140QT-R0.750 A6061T6B0.250X01.000 A6064 A606	Part Part No Description	Name	Name	Part Supplier Part No Description Status Due Quantity	Part Part No Description Status Due Date Dat	Part Supplier Description Status Due Date Quantity Received Quantity Balance	Part Part No Description Status Due Quantity Quantity Balance Price (CAD)

Plex 1/16/18 7:50 AM dart.lavoie.chantal

Lin	ė	Supplier		Items						
Iter	n Part	Part No	Description	Stat		Order Quantity	Received Quantity		Unit Price (CAD)	Extende
	M6061T6B0.250X5.000		6061T6 Bar 0.250 X 5.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T0 ALUMINUM BAR PER QQ-A-225/8 OR AMS-Q0 A-225/8 OR AMS 4117/4128/4115/4116 OF QQ-A-200/8 OR AMS-Q0 A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	62 Q-	ed 1/17/18	20 ft	0 ft 20	20 ft	\$3.7625/ft	\$75.2
8	M6061T6B0.250X6.250		6061T6 Bar 0.250 X 6.25 MATERIAL: 6061- T6/T651/T6510/T6511/T6 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ A-225/8 OR AMS 1117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ A-200/8 OR AMS 4160 DR ASTM B211 OR ASTM B221 eceive ft	2	d 1/17/18	24 ft	0 ft	24 ft	\$9.61625/ft	\$230.79
9	M6061T6B0.375X02.000	TAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	061-T6 Bar .375 X 2.00 MATERIAL: 6061- 6/T651/T6510/T6511/T62 LUMINUM BAR PER 20-A-225/8 OR AMS-QQ- -225/8 OR AMS 117/4128/4115/4116 OR Q-A-200/8 OR AMS-QQ- -200/8 OR AMS 4160 R ASTM B211 OR STM B221 ceive ft		1/17/18	40 ft	0 ft	40 ft	\$2.3035/h	\$92.14
0 1	M6061T6B0.500X02.500	60 : M TG AL QQ A QQ A OF AS	061-T6 Bar .500 X 2.50 MATERIAL: 6061- 07/T651/T6510/T6511/T62 LUMINUM BAR PER Q-A-225/8 OR AMS-QQ- 225/8 OR AMS- 17/4128/4115/4116 OR Q-A-200/8 OR AMS-QQ- 200/8 OR AMS 4160 R ASTM B211 OR CTM B221 Seive ft		1/17/18	20 ft	20	20 ft	\$3.7625/ft	\$75.25
N	16061T6B0.500X06.000	: M T6/ AL QC A-2 411 QC A-2 OR AS	61-T6 Bar .500 X 6.00 IATERIAL: 6061- 17651/T6510/T6511/T62 UMINUM BAR PER I-A-225/8 OR AMS-QQ- 125/8 OR AMS-QQ- 1	Firmed	1/17/18	40 ft	0 n	40 ft	\$9.17375/ft \$	\$366.95

DAS 9-89

Line		Supplier			Due	Order	Received		Unit	Extended
Item		Part No	Description	Status			Quantity			Price
12	M6061T6B0.500X1.500		6061T6 Bar 0.500 X 1.500 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	1	1/17/18	20 ft	7 <i>0</i>	20 ft	\$2,3035/ft	\$46.07
13	M6061T6B0,500X12.000		6061-T6 Bar .500 X 12.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	1/17/18	12 ft	0 ft	12 ft	\$23.005833/ft	\$276.07
14	M6061T6B1.000X04.000		6061-T6 Bar 1.00 X 4.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	1/17/18	12 ft	0 ft	12 ft	\$12.765833/ft	\$153.19
15	M6061T6B1.000X12,000		6061-T6 Bar 1.00 X 12.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	1/17/18	12 ft	12	12 ft	\$44.58666/ft	\$535.04
16	M6061T6B1.250X01.250	X	6061-T6 Bar 1.25 X 1.25 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	1/17/18	20 ft	0 ft	20 ft	\$4.8855/ft	\$97.71

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Plex 1/16/18 7:50 AM dart.lavoie.chantal

Lin	e	Supplier			Due	Order	Received		11.11	1-
lten	Part	Part No	Description	Status	Date	Quantity			Unit Price (CAD)	Extended Price
17			6061-T6 Bar 2.50 X 1.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T6 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	2	1/17/18	24 fi	24	24 ft	\$14.36125/ft	\$344.67
18	M6061T6B0.375X01,000		6061T6 Bar .375 X 1.00 MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS M117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 DR ASTM B211 OR ASTM B221 eceive ft		1/17/18	60 ft	60 n	60 ft	\$1.1518333/ft	\$69.11
119	M6061T6B0.750X03.000	A C A 4 C A C A	0661-T6 Bar .750 X 3.00 MATERIAL: 6061- 16/T651/T6510/T6511/T62 ALUMINUM BAR PER 10Q-A-225/8 OR AMS-QQ- -225/8 OR AMS 117/4128/4115/4116 OR 10Q-A-200/8 OR AMS-QQ- -200/8 OR AMS 4160 10Q-A-200/8 OR AMS 4160 10Q-A	Firmed	1/17/18	20 ft	0 ft 2 4	20 ft	\$8.3725/ft	\$167.45
20	M6061T6B1.500X01.500	: I TG AI Q A- 41 Q A- OI AS	061-T6 Bar 1.50 X 1.50 MATERIAL: 6061- 6/T651/T6510/T6511/T62 LUMINUM BAR PER Q-A-225/8 OR AMS-QQ- -225/8 OR AMS 17/4128/4115/4116 OR Q-A-200/8 OR AMS-QQ- 200/8 OR AMS 4160 R ASTM B211 OR STM B221 ceive ft	Firmed	1/17/18	20 ft	p0	20 ft	\$6.775/ft	\$135.50
1 P	M6061T6B3.000X01.500	: M T6 AL Q0 A-: 411 Q0 A-: OF	61-T6 Bar 3.00 X 1.50 MATERIAL: 6061- /T651/T6510/T6511/T62 .UMINUM BAR PER Q-A-225/8 OR AMS-QQ- 225/8 OR AMS 17/4128/4115/4116 OR Q-A-200/8 OR AMS 4160 R ASTM B211 OR ITM B221 Seive ft	Firmed 1	/17/18	12 ft	0 ft	12 ft \$	14.020833/ft	\$168.25
		or I down		1		_	1	C	rand Total: \$3	720.00

		Grand Total: \$3,739.3
Order No.	otes	
	DAS 11 9-89	CL
	Plex 1/16/18	7:50 AM dart lavoie chanta

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 1/16/18 7:50 AM dart.lavoie.chantal



935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0079984

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2018/01/11

Revision No

0

Prices valid until

2018/01/18

Your Order No

Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

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Product N° and description	Weight	Qty	U/M	Qty U/M Price	Pcs Nb	Price	Amount
TUBE MEC 1.000 OD X .120 RANDOM TME-1000120-V 6505 5 X 20' R/L STOCK	112.80	100.00	PI_\$CPI	100.00 PI	5.00	44.190	220.95
TUBE MEC 0.875 OD X .120 RANDOM TME-0875120-V 6787 3 X 20' R/L STOCK	58.08	60.00	PI_\$CPI	60.00 PI	3.00	41.190	123.57
ROUND CR 1 1/4 1018 RANDOM RCR-114-V 5260 1 X 20' R/L STOCK	83.40	20.00	PI_\$CLB	20.00 PI	1.00	83.360	83.36
ROUND SS 1 303 RANDOM RSS-1303-V 8519 4 X 12' R/L 2-3 DAYS	128.16	48.00	PI_\$CLB	48.00JN_\$UN	4.00	96.745	386.98
ROUND SS 3/4 304 RANDOM RSS-34-V 5762 8 X 12' R/L STOCK	144.19	96.00	PI_\$CLB	96.00 PI	4.00	103.080	412,32
ROUND 4140 HEAT TREAT 3/4 RANDOM R4140-34H-V 4949 1 X 20' R/L STOCK	30.04	20.00	PI_\$CLB	20.00 PI	1.00	49.850	49.85
FLAT 4140 HT 1/2 X 3 N 1 X 6' 4-5 DAYS	0.00	1.00	UN	1.00 UN	1.00	141.000	141.00
FLAT 4140 HT 1/2 X 4 N 1 X 6' 4-5 DAYS	0.00	1.00	UN	1.00 UN	1.00	162.000	162.00
FLAT 4140 HT 3/4 X 1 3/4 N 1 X 8' 4-5 DAYS	0.00	1.00	UN	1.00 UN	1.00	188.000	188.00
FLAT ALU 1/4 X 1 6061-T6 RANDOM FAL-141-V 2512 1 X 20' STOCK	6.20	20.00	PI_\$CLB	20.00 PI	1.00	15.870	15.87

Date:

Next Page...



935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0079984

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Customer Nº

CLI0001056

Date

2018/01/11

Revision Nº

0

Prices valid until

2018/01/18

Your Order No

Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

2

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amoun
FLAT ALU 1/4 X 5 6061-T6 RANDOM FAL-145-V 2527 1 X 20' STOCK	29.40	20.00	PI_\$CLB	20.00			1.00	75.250	75.25
ALU PLATE 1/4 6061-T651 RANDOM PAL-146061-V 4245 3 X 6 1/4" X 96" STOCK	58.56		PI2_\$CLB	16.00	PI2		3.00	76.930	230.79
SHEAR CUT SHEAR 2		1.00	UN	1.00					
FLAT ALU 3/8 X 2 6061-T6 RANDOM FAL-382-V 2617 2 X 20' STOCK	36.00	40.00	PI_\$CLB	40.00	PI		2.00	46.070	92.14
FLAT ALU 1/2 X 1 1/4 6061-T6 RANDOM FAL-12114-V 2469 1 X 20' 2-3 DAYS	15.70	20.00	PI_\$CLB	20.00	PI		1.00	40.180	40.18
FLAT ALU 1/2 X 2 1/2 6061-T6 RANDOM FAL-12212-V 2479 1 X 20' STOCK	29.38	20.00	PI_\$CLB	20.00	PI		1.00	75.200	> 75.20
FLAT ALU 1/2 X 5 6061-T6 RANDOM FAL-125-V 2492 <i>3 X 12' 3-4 DAYS</i>	105.88	36.00	PI_\$CLB	36.00	PI		3.00	116.446	349.34
FLAT ALU 1/2 X 6 6061-T6 RANDOM FAL-126-V 2494 2 X 20' STOCK	141.16	40.00	PI_\$CLB	40.00	ΡĬ		2.00	183.475	366.95
FLAT ALU 1/2 X 1 1/2 6061-T6 RANDOM FAL-12112-V 2466 1 X 20' STOCK	18.00	20.00	PI_\$CLB	20.00	PI		1.00	46.070	46.07
FLAT ALU 1/2 X 12 6061-T6 RANDOM FAL-1212-V 7447 1 X 12' STOCK	84.70	12.00	PI_\$CLB	12.00	PI		1.00	276.070	276.07

Date:

Next Page...



935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0079984

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Customer No

CL10001056

Date

2018/01/11

Revision Nº

0

Prices valid until

2018/01/18

Your Order No

Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

3

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amoun
FLAT AL 2 X 6 6061T6 N 1 X 6' 3-4 days	0.00	1.00	UN .	1.00	UN		1.00	316.000	316.00
FLAT ALU 1 X 4 6061-T6 RANDOM FAL-14-V 2532 1 X 12' STOCK	57.60	12.00	PI_\$CLB	12.00	PI		1.00	153.190	153.19
FLAT ALU 1 X 12 6061-T6 RANDOM FAL-112-V 2450 1 X 12' STOCK	169.34	12.00	PI_\$CLB	12.00	PI		1.00	535.040	535.04
SQUARE ALU 1 1/4 6061-T6 RANDOM CAL-114-V 1775 1 X 20' STOCK	36.74	20.00	PI_\$CLB	20.00	PI		1.00	97.710	97.71
FLAT ALU 1 1/2 X 2 1/2 6061-T6 RANDOM FAL-112212-V 2439 2 X 12' STOCK	105.74	24.00	PI_\$CLB	24.00	PI		2.00	172.335	344.67
FAL-381-V 2613 6 X 20' STOCK	27.00	60.00	PI_\$CLB	60.00	PΙ		3.00	23.036	69,11
FLAT ALU 3/4 X 3 6061-T6 RANDOM FAL-343-V 2594 1 X 20' STOCK	53.00	20.00	PI_\$CLB	20.00	PI		1.00	167.450	167.45
FLAT ALU-1/8 X 3/4 6063-T5 RANDOM FAL-1834-V 1 X 20' STOCK	2.26	20.00	PI_\$CLB	20.00	PI		1.00	6.690	6.69
SQUARE ALU 1 1/2 6061-T6 RANDOM CAL-112-V 1773 1 X 20' STOCK	52.94	20.00	PI_\$CLB	20.00	PI		1.00	135.500	135.50
FLAT ALU 1 1/4 X 2 6061-T6 RANDOM FAL-1142-V 2456 2 X 12' 3-4 DAYS	70.56	24.00	PI_\$CLB	24.00	PI		2.00	121.345	242,69

Date:

Next Page...



935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0079984

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Customer No

CLI0001056

Date

2018/01/11

Revision N°

0

Prices valid until

2018/01/18

Your Order No

Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amoun
FLAT ALU 2 X 2 1/2 6061T6 N 1 X 12' 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	387.000	387.00
FLAT ALU 2 X 5 6061T6 N 1 X 12' 3-4 DAYS	0.00	1.00	UN	1.00	UN		1.00	495.000	495.00
FLAT ALU 2 X 8 6061T6 N 1 X 4' 3-4 DAYS	0.00	1.00	UN	1.00	UN		1.00	285.000	285.00
FLAT ALU 3 X 6 6061T6 N 1 X 6' 3-4 DAYS	0.00	1.00	UN	1.00	UN		1.00	465.000	465.00
FLAT ALU 1 1/2 X 3 6061-T6 RANDOM FAL-1123-V 2445 1 X 12' STOCK	63.50	12.00	PI_\$CLB	12.00	PI		1.00	168.250	168.25
CARRE AL. 4 1/2" 6061T6 N 1 X 6' 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	782.000	782.00
PLAT ALU 1 1/4 X 4 1/2 6061T6 N 1 X 12' 3-4 DAYS	0.00	1.00	UN	1.00	UN		1.00	275.000	275.00
PLAT ALU 2 1/2 X 4 1/2 6061T6 N 1 X 6' 3-4 DAYS	0.00	1.00	UN	1.00	UN		1.00	295.000	295.00
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$						3.95

Total Weight (Lbs)

1 720.33

Important

This offer is based on availability and current pricing conditions that may be revised upon reception of the order.

TVH-13 · · 1111.52

This offer is subject and conditional to credit approval. Approuved and Accepted by :

Date :

Total (\$CAD)

Sub-total

9 661.66

8 550.14



935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0080975

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Customer Nº

CLI0001056

Date

2018/01/18

Revision Nº

0

Prices valid until

2018/01/25

Your Order No

Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
TUBE CR 1 1/2 X 1 X .065 RANDOM TCR-1121065-V 6449 1 X 20' OFFER .065 THICK	20.94	20.00) PI		1.00	48.000	48.00
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE 2-3 DAYS			\$						3.95

Total Weight (Lbs)

20.94

Important

This offer is based on availability and current pricing conditions that may be revised upon reception of the order.

This offer is subject and conditional to credit approval.

Approuved and Accepted by:

Date:

Sub-total

51.95

TVH-13 · · 6.75

Total (\$CAD)

58.70

	A STATE OF THE PARTY OF THE PAR			3	called - Sales	からつう	CO0006982
	Salaberry de Valleyfield (Quebec) 165 51.1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242	eld (Québec) 165 51.1 MH: 514-336-4248 Ext.: 800-667-4248 MH: 514-336-4246 Ext.: 866-456-4242	: 800-667-4248 : 866-456-4242	Custo	Customer N° Date	CL10001056 2018/01/15	
				Delive	Delivery date	2018/01/16	λ.
Billed to SI	Shipped to			Your	Your order N°	038785	
1946 ABEDDEEN ST				Proce	Processed by	Josianne Bourdon	
HAWKESBURY, Ontario, K6A 1K7	, Ontario,			oaresman			
	Att : CHANTAL LAVOIE Tél.: 613-632-5200	Tél.: 613-632-4	5200	Carrier	Carrier Credit Terme	OUELLETTE VALLEYFIELD	ELD
	Delivery Route	ın		Page			
Product Description	Weight	Qty	U/M		PCS NB	Internal Use Only	Only
1 TUBE MEC 1.000 OD X .120 RANDOM	112.80	100.00	1000	+	EXP B/0	IN I S C	DUT
TME-1000120-V 6505				2.00			
2 TUBE MEC 0.875 OD X.720 RANDOM TME-0875120-V 6787	58.08	60.00	PI_\$CPI	3.00			
3 X 20' RIL HEAK DESIDES							
3 ROUND CR 1 1/4 1018 RANDOM RCR-114-V 5260	83.40	20.00	PL\$CLB	1.00			
1 X 20' R/L HEAT : (41892 AG)							
4 ROUND 55 3/4 304 RANDON	144,19	86.00	PI_\$CLB	4.00			
8 X 17' DA MEAT. AND							

				Your	Your order N°		038785	038785	2		
Billed to DART AFROSPACE LTD	Shipped to			Proc	Processed by		Josial	Josianne Bourdon	rdon		
1220 ARERDEEN ST				Sales	Salesman						
HAWKESBURY, Ontario, K6A 1K7	, Orkano,			Carrier	er		OUEL	OUELLETTE VALLEYFIELD	ALLEYF	ELD	
	Att : CHANTAL LAVOIE Tél.: 613-632-5200	Tél.: 613-632	-5200	Cred	Credit Terme		Net 3	Net 30 Days			
	Delivery Route	2		Page			2				
Product Description	Weight	2	707.01		PCS NB			Intern	Internal Use Only	Only	
	and	469	O/10	CMD	EXP	8/0	NI	-	S		OUT
5 ROUND 4140 HEAT TREAT 3/4 RANDOM R4140-34H-V 4949 I X 20' R/L HEAT (M52573)	30.04	20.00	PI_\$CL8	1.00							
6 FIAT ALU 1/4 X 1 6061-T6 RANDOM FAL-141-V 2512 1 X 20' HEAT (SXA-160968)	6.20	20.00	PI_\$CUB	1.00							
7 FLAT ALU 1/4 X 5 6061-T6 RANDOM FAL-145-V 2527 1 X 20" HEAT 67915	29.40	20.00	PI_\$CLB	00.1		1					
8 ALU PLATE 1/4 6061-1651 RANDOM PAL-146061-V 3×6 1/4"×96" HEAT: "A VENIC	28.56	16.00	P12_\$CLB	3.00				1			

286900000

Copy

Order - Sales

CL10001056 2018/01/15

Customer N°

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) 165 5L1
Tél.: 450-377-4248 MU: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 MU: 514-336-4246 Ext.: 866-456-4242

Date

				2							
Called to				Your	Your order N°		038785	L/J			
DART AEROSPACE LTD	on padding			Proc	Processed by		Josian	Josianne Bourdon	don		
1270, ABERDEEN ST.	· series			Sale	Salesman						
HAIVKESBURY, Ontario, K&A 1K7				Carrier	er		OUELL	OUELLETTE VALLEYFIELD	ALLEYF	ELD	
	Att : CHANTAL LAVOIE Tél.: 613-632-5200	Tél.: 513-632-	5200	Cred	Credit Terme		Net 30 Days	Days			
	Delivery Route	ιΩ.		Page			٣				
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CUT		1.00	NO								
SHEAR									_		
9 FIAT ALU 3/8 X 2 6061-T6 RANDOM FAL-382-V 2617	36.00	40.00	PI_\$CLB	2.00							
SAT. SXF1718											
10 FLAT ALU 1/2 X 2172 6061-76 RANDOM	29.38	20.00	PI \$CIB	1.00							
FAL-12212-V 2479											
3 X 20" HEAT: (33083)											
11 FLAT ALU 1/2 X 6 5061-T6 RANDOM	141.16	40.00	PL_\$CLB	2.00							
PAL-126-V 2494 2 x 20' HEATF 36529											
12 FLAT ALU 1/2 X 1 1/2 6061-76 RANDOM	18.00	20.00	PI_\$CLB	1.00							
FAL-12112-V 2466 1 X 20' HEAT/ 68295											
James Company											

CO00006982!

Copy

Order - Sales

Customer N°

ACIER OUELLETTE INC. 935, Boul, du Hâvre Salaberry de Valleyfield (Québec,) 365 5L1 Tél.: 450-377-4248 MI: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 MI: 514-336-4246 Ext.: 866-456-4242

CL10001056 2018/01/15

Date

				Your	Your order No		038785	Ľ.			
Billed to	Shipped to			Proc	Processed by		lociar Inciar	Usoros Tosianne Roundon	ndon		
DART AEROSPACE LTD				Sale	Salesman						
1270', ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	, Ontarlo,			Carrier	4		Tano	LETTE	OUELLETTE VALLEYFIELD	TELD	
	Att : CHANTAL LAVOIE Tél.: 613-632-5200	IE Tél.: 613-632	-5200	Cred	Credit Terme		Net 3	Net 30 Days			
	Delivery Route	V1		Page			₹				
Product Description	Weinh	240	20,00		PCS NB			Interr	Internal Use Only	Only	
		444	E	CMD	EXP	B/0	IN	-	S		TUO
13 FLAT ALU 1/2 X 12 6061-T6 RANDOM FAL-1212-V 7447	84.70	12.00	PI_\$CLB	1.00							
14 FLAT ALU 1 X 4 5051-75 RANDON 2532 1 X 12' HEAT 387163	57.60	12.00	PL\$CB	1.00	•						
15 FLAT ALU 1 X 12 6061-76 RANDOM FAL-112-V 2450 1 X 12' HEAT (201704837)	169.34	12.00	PL\$CL8	1.00	•						
16 SQUARE ALU 1 1/4 6061-16 RANDOM CAL-114-V I X 20' HEAT: 160973418	36.74	20.09	PI_\$Cl 6	1.00							

CO00006982!

Copy

Order - Sales

Customer N°

935, Boul. du Hävre Salaberry de Valleyfield (Québec) 365 5£1 Tél.: 450-377-4248 Mtl: 514-335-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4245 Ext.: 866-456-4242

ACIER OUELLETTE INC.

Date

CL10001056 2018/01/15

					Your	Velivery date Your order N*	n •	038785	2016/01/16	D		
Billed to DART AEROSPACE LTD	Shipped to				Proc	Processed by	_	Joslan	Josianne Bourdon	don		
1270 , ABERDEEN ST. HANNESBRIDY OFFICE KGA 127	Outano,				Carrier	Saresman Carrier		OUEL	OVELLETTE VALLEYFJELD	ALLEYFI	ELD	
	Att: CHANTAL LAVOIE	LAVOIE Tél.;	Tél.; 613-632-5200	5200	Cred	Credit Terme	-	Net 30	Net 30 Days			
	Delivery Route	te 5			Page 4			Ŋ				
Table Date of the Control of the Con	-3-147			11.780		PCS NB	9		Intern	Internal Use Only	July	
Produce Descripcion	Weignt		40	M/0	CMD	EXP	8/0	IN	1-4	S		OUT
17 FLAT ALU 1 1/2 X 2 1/2 6061-T6 RANDOM FAL-112212-V 2439	10	105.74	24.00	PI \$CLB	2.00							
2 X 12" HEAT (SDX170240) 72 18 FLAT ALU 3/8 X 1 6061-T6 RANDOM FAL-381-V 2613		27.00	60.00	PI_\$CLB	3.00							
3 X 20" HEAT: 384191 19 FLAT ALU 3/4 X 3 6061-T6 RANDOM FAL-343-V 2594	UT	53.00	20.00	Pf_\$CLB	3.00							
1 X 20' HEATE 36740 20 SQUARE ALU 1 1/2 6061-TE RANDOM CAL-112-V 1 X 20' HEAT: (68055)		52.94	20.00	PI_\$CL8	1.00							

CO00069825

Copy

Order - Sales

CLI0001056 2018/01/15

Customer N°

ACTER OUELLETTE INC.
935, Boul, du Håvre
Salaberry de Valleyfield (Québec) 365 SL1
Tél.: 450-377-4248 PNI: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5695 PNI: 514-336-4246 Ext.: 866-456-4242

Date

12:00 PL.\$CLB St. 55.11 Customer N° Customer N° CLI000		12-15	ACTER OUELLE	TTE INC.	Ord	Order - Sales	Sales		Copy	λd	C00006982!
Net 30 Days Solume Bourdon Net 30 Days AB Internal Use Only B/O IN I S C Total (\$CAD) A 229 Balance A 229			Salabeny de Valleylin Tél.: 450-377-4248 p Fax: 450-377-5596 p	eld (Québec) 165 5L1 INI: \$14-336-9248 Ext INI: \$14-336-4246 Ext	.: 866-456-4248	Custo Date Deliv	omer N° ery date		CLI0001056 2018/01/15 2018/01/1	9	
OUELLETTE VALLEYFIELD Net 30 Days 6 Internal Use Only B/O IN I S C IN OUELETTE VALLEYFIELD 6 Total (\$CAD) 4 229 Deposit 0 Balance 4 229	Billed to DART AEROSPACE LTI	0	Shipped to			Your	order N°		038785 Joslanne Bour	don	
OUELLETTE VALLEYFIELD AS AS Internal Use Only B/O IN I S C IN S C Total (\$CAD) 4 229 Belance 4 229	1270, ABERDEEN ST.	420 C	, Onbaño,			Sales	man				
6 Internal Use Only B/O IN I S C C C C C C C C C C C C C C C C C C	Market College	V, NOW IN/	AR: CHANTAL LAW		-5200	Carrie			OUELLETTE V	ALLEYFIE	ΠD
B/O IN I S C C C C C C C C C C C C C C C C C C			Delivery Route	-		Page	r rerme		Net 30 Days		
## 1 S C	Produ	ct Description	Weight	Ofv	M/M		PCS NB		Intern	al Use 0	N N
Total (\$CAD) 4 229 Deposit 0 Balance 4 229	4			(4)	210	CMD	-	0		S	
Total (\$CAD) 422 Deposit Balance 422		2445 34719 GGETTQUE FRAIS_ENERGETTQUE	93.50	12:00	\$1.40LB	0.00					
Verified By: Delivered 8y: Time Customer's Signature Y M D Deposit 4.22	Conditions: At sold and delivered meterials recified on on deliverse includes on one conditions. Net 30 delays fee, recified with the contract with the country with the country of 25% nestocking or age.	ren the property of "Acier Duellette Inc" until pay is offered and Acnored by the menufacture; and his offered and Acie Dujen accepts to pay admit to payment by accepts to pay admit payment by accepts to the second principle and permits to the second only merchandee that has been da	Total Weight (L Fest & made in full, complete and on avranty is transferred by "Acce" in streton charges of 2%, per mort et, at his choice to common happed, cut or modified central be in	(85): 1 1397,77 tashto Al lost materials are Ouetede Inc. to the client. In (24% per annum) on all pa Parce due of the repospession efurned. All goods returned in	NI at the buyer's expense. The buyer hereby accepy st dute amounts over 30 or of the goods sold. All c	R: R-109 The warranty of the transporter the transporter the transporter the transporter the transporter than the transfer and are	516-6 oreed 2/ is th mass subject to				
				komer's Signature		Σ -	0		Total (\$CAD) Deposit Balance		4 229.88 0.00 4 229.88

TUBE INVESTMENTS OF INDIA TUBE PRODUCTS OF INDIA - MODULE - 1 POST BOX NO.4 & 18, M T H ROAD, AVADI, CHENNAI - 600054



TC No

: PAE/SC1720318

Date

: 10-FEB-17

Description Specification : /

Invoice No

: 4421810999

Condition

: PRECISION STEEL TUBES - CDW C ASTM AST3(AST3M-15 T5 C1020

Involce Date

: 31-JAN-17

Bundle No's

SRA : 017000842 Job /Betch No

: RBCL1701331

Cust Part No. Bundle Tagging

: CUSTOMER SIZE /CONDITION /QUANTITY /GROSS WEIGHT /TAG MARKING / WO.NO. / SPEC 4:

CRADE /DESTINATION / BUNDLE NO /COUNTRY OF ORIGIN.

Tube Marking P. Uom

Size.

1tem-CDM 1.000

Heat #-D37954

: P.O.NO. /TPI-ED /SIZE /SPEC/CONDITION/ TAG MARKING/ HEAT NO. /MADE IN INDIA.

: 1,000" OD X 0,760" ID X 0,120" WT X 20'- 24' R/L

Quantity In: 1857.513 Ft

LADLE ANALYSIS:

Process	Heat No.	%C	%Ma	%P	%8	%81	%AI
Min	4	.18	. ,3	1 1		4	
Max	100	.23	~6	.035	.035		
Obs	D37954	.19	.49	.008	.005	,023	.054

Pall Se	etien Lengin	udhel Testle T	et at Room Tax	p '-
Test	Heat No	Y.S	T.S	Eleg.
Min		379	448	10
Max				
		, MPA	MPA	%
OBS	D37954	480,9	\$65.76	22

Rock well	Rough	mess
Hardness	OD	D
75		
,		
HRB		
- 34		-

Dimensions	in : Inches			
Spec	OD	D	WT	Len
Min	3	.755		240
Max	1.005	.76		288
OBS-Mia	1.001	.757	0	267.283
OBS-Mex	1.003	.759	0	284.016

Technological Te					
Test	Spec		Re	sult	
Crushing			-		
Flaring			-	*	
Flattening			·	·	
Flanging			-		
Rev. Flang.,		4	-		
Eing.Caug.Len					

Test	Spec	Result
Straightness	0.76/1000 MM MAX	0.30 / 1000
Eddy Current	100	100% TESTED OK
Visual		DEFECT FREE
Ultrasonic Test		•

This is to certify that the goods are supplied as per the purchase order and specification Requirements

Prepared by : +1 . A 1/4 ourmand

Quality Shift Incharge Signature:

for Tube Investments of India Unit: Tube Products of India Module - 1

D. Es Mathavan.M

· Mgr-Quality-IBP-TP

TPI Work Test Certificate



TUBE INVESTMENTS OF INDIA TUBE PRODUCTS OF INDIA - MODULE - I POST BOX NO.4 & 18, M T H ROAD, AVADA, CHENNA? - 600054



: MC4811/24-JUL-15

TC No Date

: PAK/MC15MD476 : 25-AUG-15

Description Specification : PRECISION STEEL TUBES - COW SSTM ASTW/MAM-12 TS C1020 : SRA

Invoice No Juvoja: Date : 4421809206

Crodition Moundly No's : 015010913,015010910

Job /Betch No

: 22-AUG-15 : RBCL1508149

Cust Part No.

Bundle Tagging

: CUSTOMER SIZE /CONDITION /QUANTITY /GROSS WEIGHT /TAG MARKING / WO.NO. / SPEC &

GRADE /DESTINATION / BUNDLE NO /COUNTRY OF ORIGIN.

Tube Marking P. Uom

Size

: 0.875

: PONO. /TPI-ED/SEZE (SPRC /CONDITION/ TAG MARKING/ HEAT NO. /MADE IN INDIA. DO X 0.635" 10 X/0.120" WT X 20- 24 R/L

Quantity In: 2592,749 Ft

LADLE ANALYSIS:							
Process	Hent No.	℃	%Ma	% P	WS	%Si	%A3
3rLim		-48	3				
Max		23	.6	.035	£005		
Obs	DeSideo	.1	_53	.015	.005	,12	10,

Full Sec	tion Longitud	nal Tensile T	est of Room	Temp
Test	Heat No	V.S	T.S	Ding.
Min		374	441	10
Max				
	/ \[MPA i	MPA	2h
280	DIGSTOR9	512-02	625.1	20
				-

٢	Rock Well
L	Hardeess
Γ	75 HRB
Г	
٦	
г	WI LIDS

	ip : Inches			
Spec	OD	ID E	WT	Length
Min	.175	.63		240
Max	28.	.635		201
OffS-Min	.876	45,54	0	340
OBS-Max	.878	.635	0	287,993

Technological	Tests:		_
Test	Spec	Result	
Crushing			
Flaring		-	
Flatiening		^	
Flanging		-	
Rev. Flang			
Elng Gouglier			

Non-Destructive Years:						
Test	Spec	Result				
Roughness OD						
Roughness TD		-				
Straightness	0.76/1000 MM MAX	0.35/1000 MM				
Riddy Correct	100	100% TESTED OK				
Vinus)		DEFECT FREE				
Otrasonic Test						

This is to certify that the goods are supplied as per the purchase order and specification Rogimements

Lichard ph. : K- Amalanijang.

Quality Shift Incharge Signature:

for Tube investments of India Unit: Tube Produces of India Modale - 1

Маціауав,**М** Mgs-Quality-189-TP

Previewed

5282
RCRCALIBRADOS
PRADERA, S.A.

RCR-1-V RCR-114-V

49554 CX

47950

ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tino.: 946480211 Fax: 946480128

Email: calpradera@calibradospradera.es

www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuardo a /Made according to:

EN 18284/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784 Delivery Note Nr.

CLIENTE

LES ACTERS TRANSBEC (1997) LIFE

Norma: EN 10277

Productos Calibrados de acera. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

PRODUCTO SOCICITADO / PRODUCT ACCORDING ASTM A JOS

JW (

PAR-48569	1018 RED, ESTIRADO 25,40 (1")	978	-0.051	137149	25,40
MOP-48737	1018 RED. ESTIRADO 25,40 (1")	998	- 0.051	141109	25,40
OU-47949	1018 RED. ESTIRADO 7,94 (5/16")	1.052	-0.051	141112	7.94
OU-47949	1016 RED. ESTIRADO 17,46 (11/16')	1.010	-0,051	141114	17,46
CA-47950	1018 RED. ESTIRADO 25,40 (1")	998	-0.051	141310	25,40
CA-47950	1018 RED. ESTIRADO 31,75 (1 1/4")	994	- 0,051	140119	31,75
VI-48475	1018 RED. ESTIRADO 6,35 (1/4")	1.122	- 0.051	141129	6.35
PAJ-48144	1018 RED. ESTIRADO 25,40 (1")	1.996	-0,051	141279	25,40
PAJ-48144	1018 RED. ESTIRADO 28,58 (1 1/6")	1.012	-0.051	141280	28,58
PAR-48143	1018 RED. ESTERADO 19,05 (3/4")	1.468	-0.051	141267	
PAR-48143	1018 RED. ESTIRADO 25,40 (1")	2.992	- 0.051	141269	19,05
PAR-48143	1018 RED. ESTTRADO 30,16 (1 3/167)	836	- 0.051	916831	25,40
MJP-48145	1018 RED. ESTIRADO 25,40 (1")	1.996	-0,051		30,16
MN-48543	1018 RED. ESTIRADO 25,40 (17)	3.994	-0,051	141287	25,40 25,40

Compedition quimien de la coloda! Chanical Analysis of Heat

	DEDA .	OF	COLADA Cart Nr.	% C	% Cr	% Cu	%	% . Mo	% N	% NT	%	%	% 81
25,40	0,00	137149	40655 G	0,170	0.106	0.231	0.610	0.024	0,000	0.111	0.011	0,016	
25,40	0,00	141109	42055 G	0,160	0.083	0.271	0.650	0,018	0,000	0.099	0.011	0.010	0,143
7,94	0.00	141112	42134 GM	0,170	0,000	0.290	A PILA	0,000	0.007	0.000	0,020	0,008	0,175
17,46	0,00	141114	41994 AA	0.157	0,000	0.000	0.600	0,000	0,000	0.000	0.013	0,005	0,160
25,40	0,00	141110	42055 G	0.160	0.083	0.271	0.650	0.018	0,000	0.099	0.013		0,163
31,75	0,00	140119	41892 AG	0.167	0,000	0,169	0.800	0.000	0.006	0,000	0,009	0,010	0,175
6,35	0,00	141129	41975 GM		0,000	0.300	0.710	0.000	0.008	0.000		0,021	0,198
25,40	0,00	141279	42055 G	0,160	0,083	0.271	0,650	0.018	0,000	0.099	0,022	0,012	0,180
28,58	0,00	141280	42186 AG	0.171	0,000	0,000	0,600	0,000	0,004	0.000		0,010	0,175
19,05	0,00	141267	41645 G	0,160	0.000	0,000	0,640	0,000	0.000	0,000	0,009	0,023	0,194
25,40	0,00	141269	42055 G	0.160	0.083	0,271	0,650	0.018	0.000	0.099	0,013	0,019	0,133
30,16	0,00	916831	41411 AG	0,165	0,000	0,000	0.758	0,000	0,000		0,011	0,010	0,175
25,40	0,00	141287	42055 G	0.160	0.083	0,271	0,650	0,018	0,000	0,000	0,016	0,021	0,220
25,40	0,00	141414	42055 G	0,160	0.083	0,271	0,650	0.018	0,000	0,099	0,011	010,0	0,175

Caracteristicus medialess / Mechanical properties



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

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CERTIFICADO DE CALIDAD/QUALITY REPORT

De senerdo a /Made according to:

EN 10204/DIN 50049

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784 Delivery Note Nr.

Norma: EN 10277

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE

CUSTOMER

Productos Calibrades de acero. Condiciones técnicas de sumisistro.

Norm:

Bright steel products, Technical delivery conditions.

MEDIDA Massaroneni	OF	COLADA Cast Nr.	Ratistancia. Tens. strenglet Nivera2	Lim.abistics Field point 0,2% N/mm2	Alarganismio Elongation Lo=50 sam.	Durena HIR Hardness HB	Estriction %
25,40	137149	40655 G	586,71	565,37	21,86	176,00	57,70
25,40	141109	42055 G	623,30	596,92	28,40	200.00	57.39
7,94	141112	42134 GM	706,60	658,20	10,30	216,00	61,76
17,46	141114	41994 AA	560,10	538,07	19,94	180,00	60,88
25,40	141110	: 42055 G	623,30	596,92	28,40	200.00	57,39
31,75	140119	41892 AG	571,60	542,70	34,68	180,00	58,35
6,35	141129	41975 GM	670,93	637,52	8,10	190,00	62,71
25,40	141279	42055 G	623,30.	596,92	28,40	200,00	57,39
28,58	141280	42186 AG	541,06	518,47	14,54	156.00	56,31
19,05	141267	41645 G	632,39	593,23	19,38	200,00	55,28
25,40	141269	42055 G	623,30	596.92	28,40	200,00	57.39
30,16	916831	41411 AG	551,06	525,36	21,06	165.00	59,43
25,40	141287	42055 G	623,30	596,92	28,40	200,00	57.39
25,40	141414	42055 G	623,30	596,92	28,40	200,00	57,39

Calided Separticial

DESCRIPCIÓN Description	OF	Clase EN 10277-1
1018 RED. ESTIRADO 25,40 (17)	137149	2
1018 RED. ESTIRADO 25,40 (1")	141109	2
1018 RED. ESTIRADO 7,94 (5/16")	141112	2
1018 RED. ESTIRADO 17,46 (11/16")	141114	2
1018 RED. ESTIRADO 25,40 (1")	141110	2
1018 RED. ESTIRADO 31,75 (1 1/4")	140119	2
1018 RED. ESTIRADO 6,35 (1/4")	141129	2
1018 RED. ESTIRADO 25,40 (1")	141279	2
1018 RED. ESTIRADO 28,58 (1 1/8")	141280	2
1018 RED. ESTIRADO 19,05 (3/4")	1412.67	2
1018 RED. ESTIRADO 25,40 (1")	141269	2
1018 RED. ESTIRADO 30,16 (1 3/16°)	916831	2
1018 RED. ESTIRADO 25,40 (1")	141287	2
1018 RED. ESTIRADO 25,40 (1")	141414	2

Observaciones: BARRAS DE ACERO ESTURADAS EN FRIO SIN ALEAR



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784 Dellacry Note Nr.

CLENTE

LES ACIERS TRANSBEC (1997) LITÉE

CUSTOMER

Norma : EN 10277

Productos Calibrades de acero. Condiciones técnicas de suministro.

Norm:

Bright steal products. Technical delivery conditions.

DEPARTAMENTO DE CALIDAD:Certifica que el mencionado producto cample con las especificaciones del pedido. QUALITY DEPARTMENT: Certify that the product fulfile the order specifications.

Fochs/Date: 23/11/2017

Firmade: Stoma Ferninder. Directors de Calidad





North American Stainless Canada Inc. 740 Imperial Road North Gaelph, ON NIK123 Canada

METALLURGICAL TEST REPORT 46000 (502) 347-6000

Certificate: 276094 3

0000000 ないもの本 MS571 Your Orders

Dete: 3/23/2017 Breel: 304/3042 Maleh: Co

Page!

Corresion: Afric A262-10 Prac A/H Og

124 Order: IN 0243769 02 PRODUCT DESCRIPTION :

NACE 5619E, AME 5647J, AME QQG-761D, QQG-763F, AGTH 7859 FOLOTION ANNIAL TIME 1900F MIN, ASTH A310/08 CL 1 CM ES PTH A192/13 CHOSK CHUT, MR 5639E, AMS 56473, AMS QQ6-763D, QQ APTH A193/10A-AENE EA193/10 CL 1 OR 28

ESCURY AND LOW MELFING ALLOY COPPANISHED 2011/65/HG.ROMS. MAP-MOD-CC. NO WHILD REPAIR. HELFTED AND 1870 TS OF DEAR 252,225-7609 HU DIRECTIVE COMPLESS W/REQUIR

3

		Ne, 180/INC 17825, Cartificated 12323 Chemical Abalysis per Astra 271/14-
WeightLength Mark Pieces Commodity Code		1 8
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	1,216	R) EB(Speln) UB(United Sta
stid & bissetsr size	.7300	
		L ANALYSIS
Product 14	MX4400 3	CHRKICAL

.0390 8.5225 4 .0696 3430 30 % 1.3815 4448 8 10.1635 5 .1735 8 87 % 10 .0210 0220 đ BAS BASE 2492

PROPERTIES MECHANICAL

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Product 16 0 1 6 0 F 1	2	201.
Product 16 BI4400 S	# # # # 0 0	*
	Product 16	M14400 S

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the lest methods used, the material meets the accidestions stated. These neutra relate only to the Mana

Item-SBR MARMON / KEYSTONE CANADA INC. NK#-023627

Technical

Heat #-249P

304L



0	el Bar Company		Contener PO	lane.		Autorior flore	Plane Description		
	_						3H HR RD 4140/13HRI 3MGH	SEC CITED BE MET	
		200 00-Mar-0017	94006	11100 701		61.004 (2			
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		and	56	2494	022-1921471		3363,225	14086	
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Yeazed and certified in excertance with Euron Steel's Quality Manual Qn4-60601 / Rev 3 / 2/26/13.

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		(Dave Phillip	127773

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MERCEN GLOBAL VIRTNAM ALUMINIUM COMPANY LIMITED

Address: My Xuan B1-Come industrial zone, My Xuan town, Tan Thanh district,

Bn Ris-Vung Tau province, Vist Nant

Tel: Fax:

+84(0)643924954 +84(0)643924953

MILL TEST CERTIFICATE

Date: Septembet 08, 2016

Consignoe: SINOMETAL RESOURCES INC.

4455 RUB CONSENS SAINT-LAURENT, QUEBEC, 1145 1X5, CANADA

PO sumber: 16-P-178 Customer PO: Inventory Shipping Ref No. 16-1088 LC No.: DC IIMN61426S Date of issue: August 29, 2016

Itum Code: 1040002

Die Number: GVA D00269

Alloy & Temper: (5061-16

Production Description: Flat Bat 1"x0.25"x 20' 6061-3

Longth (fuch): 240

Buadle number: 16-1-178-090, 16-9-178-106

Heat Number SXA160988

Date: 08/08/2016

Applicable Specifications ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

St	Mg	324	Cu	Mn	Cr	724)	TI	41	Qth	er	Many make
91,		7-17		74118	4.5	Z ₂ 81	- "	ΛI	EACH	TOTAL.	Remarks
0.705	1.006	0.164	0.295	0.079	0.171	0.009	0.016	97.458	<0.05	<0.10	06/08/2016

MECHANICAL ANALYSIS:

Ult. Strongth (ksi)	Yield Strength (ksi)	Eleagation % LN 2"	Remarks.
- 40.8	37,4.	. 142	

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to metch aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 mentins from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer:

LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address :

4054 BOUL LE CORBUSIER # 201

LAVAL QC H7L5R2

commande Sapa / Sapa order #:

Alliage & trempage / Alloy & temper !

6111705

bon de commande / Purchase order #: CA-46376

Description 5" X 1/4"FLATBAR

de matrice / Die #: MS 16561

67 F606

Longueur / Lenght:

6097 mm

Contrôle / Control #: 81181-1

Coulée / Cast # : 67915)

Dureté Rockwell F

Max. permis /

Rockwell E hardness: 94 HRE

Min. required: 88 HRE

Min. requis /

Max. permitted: 100 HRE

Composition chimique typique / Typical chemical composition:

			900 / 1/010	J. Griorince	il COMPOSIT	1011.		
	Si	fe	Cu	Мл	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0,10 Max	0,10 Max	0.45 - 0,90	0.10 Max	0,10 Max	0,10 Max
6005	0.60 - 0.90	0.35 Max	0,10 Max	0,10 Max	0,40 - 0.60	0.10 Max	0.10 Max	0,10 Max
6005A	0.66-0.74	0.14 - 0.28	0,08 - 0,16	0.18 - 0.26	0,46 - 0,54	0.03 Max	0,05 Max	0.05 Max
6061	0.40 - 0.80	0,70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0,25 Max	0,15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0,40 - 0,80	0.40 - 0.80		0,20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221) 14 excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre.

date: 2016-12-07

Yours truly,

Gilles Pelletier

Technicien de la qualité

Quality technician

F.07.04 rev0 Rapport depropriétés mécaniques.doc

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FAL- 382-V

TRA-1735 49545

Global Vietnom

GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN TAN THANH DISTRICT.

BARIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954 Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: November 17, 2017

Applicant/Consignee: SINOBEC TRADING INC.

4455 RUB COUSENS SAINT-LAURENT, QC, H4S 1X5, CANADA

PO number: P-17529
Shipping Ref No.: 17-2204
LC No.: DC HMM714466
Date of issue: October 31, 2017

Itom Code: 1003600 Die Number: 000205

Alloy & Temper: 6061-T6

Production Description: FLAT BAR 3750"X2"X 20' 6061-T6 D00205

Length (inch): 240

Bundle number: P-17529-045

Hent Number SXF171944

Date: 14/10/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

1	Si	Mg	Fe	'Cu	Mn	Cr	Za	Ti.	LK	BACH	TOTAL	Total Control of the Control
. [0.602	0.942	0.247	0.238	0.034	0.094	0.015	0.021	97:708.		<0.10	12/10/2017

MECHANICAL ANALYSIS:

	Uli. Strongth (km)	Yield Strength (kni)	Elongation % LN 2"	Remarks
ļ	50 AND 10.7	36.8	ination in	12/10/2017

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO attender.

Quality Manager



Trung tâm kiểm nghiệm công ty Trun nhóm toàn cầu việt nam Global vietnam aluminium CO., LTD Testing Center

J+124

	CERT CODE:	DIENUMBER	DATE OF SHIPMENT		ORDER NO.	MANIFEST NO.
	1	\$ 4651	51 Jul/14/2016	195600 _ 3	e:	252920
SHIP TO	CUSTOMERPO	ALLOY	TEMPER SALESMAN			22220
ACIER OUELLETTE	99125	6061 Te		_	MADE IN CANADA	VADA
SODESCRIPTION	CUSTOMER PART NUMBER	PARTDESCRIPTION	MO	CERTIFICATION		The same of the sa
IZ A Z.3 FLAI BAR	D104651	1/2" X 2.5" FLAT BAR	-LAT BAR	MILL TEST	MILL TEST ASTM B221-14	

	Conductivity	
	Hardness	50 86.1, 86.6, 86.4
	Percen	16.
	Yield Strength	37.50
	Ultimate Tensile	41.00
	Test Date	Ju/07/2016
Properties	Allox	1909
Mechanical	ल	A.11

David Natale Quality Control Manager

JUV14/2016 1958AD 3 252920	HOUSE ACCOUNTS	AT BAR MILL TEST ASTM 8221-14	Ni Zn IJ Ga Y B Zr Bj Pb Sn Sr Co Al 0 0.0111 0.0109 0 0 0 0 0 0 0 0 Remainder
DIENUMBER S 4651	ALLOY TEMPER 6061 T6	PART DESCRIPTION 1/2" X 2.5" FLAT BAR	
CERT CODE:	CUSTOMERPO 99125	CUSTOMERPART NUMBER DT04651	Si Ee Cu Mn Mg G
	ACIER OVELLETIE	SO DESCRIPTION 1/2" X 2.5" FLAT BAR	Cast Number Lot Most 0.

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale Quality Control Manager

DATE

R OUELLETTE OUL J-F KENNEDY EROME, QC JTY 4B6 CHAUFFER NO CLIENT: L.3693-3 MATUREL 16 500 105013					F
ACIERS TRANSBEC (1997) LTEE ACIER OUELLETTE ACIOR ACIOR ACIER OUELLETTE ACIOR			THE PROPERTY OF THE PARTY OF TH	DATE DE LIVRAISC	2 7
ACIERS TRANSBEC (1997) LTEE 4054, BOUL. LE CORBUSIER 422, BOUL J-F KENNEDY LAVAL, QC H71 5R2 NO CLIENT: 3693 NO CLIENT: L3693-3 SA00140 SA00140 SA00140 ACIER OUELLETTE R-015478-2 ACIER OUTLETTE R-015478-2 ACIER OUELLETTE R-015478-2			120719	30/May/17	
ACIERS TRANSBEC (1997) LTEE 4054, BOUL LE CORBUSIER 4064, BOUL LE CORBUSIER 4066, BOUL LE COR			NSR:	NO DE TÉLÉPHONE DUCLIENT:	
#201 LAVAL, QC H7L SR2 H201 LAVAL, QC H7L SR2	ACIERS TRANSBEC (1997) LTEE	ACIER OUELLETTE	R-015478-2	450-963-3693	
LAVAL, QC LAVAL, QC CHAURFEUT: 3693 NO CLIENT: L-3693-3 JP COMEAU NO CLIENT: L-3693-3 NO CLIENT: L-3693-3 JP COMEAU NO COMPANDE ENTROPE 105013 NA CLIENT: 3693 NO CLIENT: L-3693-3 NO CLIENT: L-3693-3 105013 NA CLIENT: 3693 NO CLIENT: L-3693-3 105013 105013 NA CLIENT: 3693 NA CLIENT: 16 500 0 0 NA CLIENT: 16 500 0 0 0 0 0 SA00140 6081/178 MILL MILL MILL ACAST 19 V 598 SOUS-TOTAL 1 19 V 598 10 V 508 10 V 508 10 V 508 10 V 508	4054, BOUL LE CORBUSIER #201	22, BOUL J-F KENNEDY	NO COMMANDE CLENT:	Guillaume Morin	
TENT: 3693 NO CLIENT: L.3693-3 JP COMEAU 105013		UNITED STATES	CHAUFFUR	NO COMPLANDE EXTRUDEY:	
MODIFICE CLIENT DISCIPLION CONTINUE CONTINUE CLIENT TOTAL	NO CLIENT: 3693	NO CLIENT: L-3693-3	JP COMEAU	105013	
BARRE PLATE BX 1/2 6096mm NATUREL 16 500 0 0 0 0 0 0 0 0	O NODERFUERE NO PLACE CUENT IN DESCRIPTION			A Los non the last of the last	OK
MILL MILL (1867) 19 598 19 598 19 19 19 19 19 19 19 19 19 19 19 19 19		6096mm NATUREL 16	0 0	SEED TO SEED T	
1 19 1	6081/16	MILL /2/12/	1	19 598	N X
	R	14/AD	Sous-Total:		F

Test Date.: 26/May/17

Report No.

Conductivity % Hardness (Rockwell E) Total Elongation (%) 19.50 Ultimate Tensile (ksi) 42.1 38.8 Yield (ksi) Temper 6061 Alloy 105013-11-141 Order No.

Mill Test (Tensile Properties of Aluminum)

Normes: (ANSI H351-1997) (ASTM B221)

Certificate of compliance (Certificat de conformité) Cast No. Order No. Hardness (Webster)

Fe | Cu | Mn | Mg | Cr | CAST CHEMICHAL COMPOSITION: 20 7 16629 13

2

J105013-11-1A

Sr

Ni | Zn | Ti | Ga | V | B | Zr | Bi | Pb | Sn

VÉRIFICATION DE MATÉRIEL

DATE 30/05/17

VÉRIFIÉ PAR

SIGNATURE CLIENT:

114-190 June

FAL-12112-V

Trans-919 49252

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer:

LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address :

4054 BOUL, LE CORBUSIER # 201

LAVAL, QC

H71582

commande Sapa / Sapa order #:

7011453

bon de commande / Purchase order #: OV-47404

de matrice / Die # : MS 9442

Description: 11/2"x 1/2"*FLAT BAR

Alliage & trempage / Alloy & temper :

6061 16

ongueur / Lenghi: 6097 നമ്പ

Contrôle / Control #: 84113-1

Coulée / Cast # (: 68295

Max. permis /

Dureté Rockwell E / Rockwell E hardness: 94 HRE

Min. requis / Min. required : 88 HRE

Max. permitted: 100 HRE

Composition chimique typique / Typical chemical composition :

	SI	Fe	CV	Mn	Mg	Cr	Zn	Ti
6063	0,20 - 0,60	0.35 Max	0.10 Max	0.10 Max	0,45 - 0.90	0.10 Mox	0.i0 Max	0.10 Max
6005	0,60 - 0,90	0.35 Max	0.10 Max	0.10 Max	0,40 - 0.60	0.10 Max	0.10 Max	XOM CI,0
6005A	0,66-0.74	0.14-0.28	0,08 - 0,16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0,05 Max
6041	0.40 - 0.80	0.70 Max	0,15-0.40	0,15 Max	0.80 - 1.20	0.04 - 0.35	0,25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	KOM ÜLÜ	0,40 - 0.80	0.40 - 0.80		0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées por la norme/ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre.

date: 2017-02-15

Yours truly,

Daniel Altredo Pelletier Directeur Qualité **Quality Director**

Jeth

FAL-1212-12 48123 PO 6751

FABRICATED PRODUCTS

CERTIFIED TEST REPORT

http://Online.KaiserAlumInum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 5205 KAISER DRIVE

MEIGHT SHEPHID: QUANTITY: BA. HUMBER: DIAMOAF/THIGIS: MEDTH:	791453-1	-	51315984	.500 X 12.000 PR	ECISION WIDE	BAR
	KAISER ORDER NUMB 6031235				(1)	
	1016,000 LB			DIAM/DAF/THIOIS:	MAROTH:	12.000 FT

Actual Physical Properties

PRINCIPALIFICA	DASH	SMOLES	uts (KSI)	TTS (RSI)	ELONGA	HAR	NESS	CONDUCT.	BENT
200108157	0001	0001	51.8	46.3	12.3	RE	95	N/A	N/A
200108157	0002	0001	51.6	46.7	10.8	RE	95	N/A	N/A
200108157	0002	0002	49.7	44.5	11.0	RE	93	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LDGES	81	Fa	Cu	Ma	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum Minimum 107310	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.05	

Applicable Requirements:

ASTM-B221-)14 STEMCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Raiser Aluminum Pabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Raiser's sales acknowledgment form. Any warranty is limited to that shown on Raiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Plant Serial: 00287371

Kaiser Order Number: 6031235

Line Item: 001

Page 1 of 1

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ES
-

CUSTOMER PO 105987 CUSTOMER PO 105987 TB TB CHOUSE ACCOUNTS CONTINUAL TOWN TB TB CONTINUAL TOWN TB TB CONTINUAL TOWN TB TB CONTINUAL TOWN TB TB TB TB TB TB TB T			4				CERT CODE:		۵	DIE NUMBER	4657	De	Dec/06/2017	WENT 17		212	ORDE 212394 — 2	ORDER NO.	NO.	MANIFEST NO.	REST NO.
SO04657	ACIER OUE	KETTE			• •		OMER PO 987	,	4.6	3061	TE TE	3	USE A	CCOU	VTS		M	ADE	N CA	NADA	040
Alloy	SO DESCRIPTION FLAT 4" X 1"	2	h			SOO	14657	RT WUMBEL		FLAT 4"	X 1"	1	5 c c c c c c c c c c c c c c c c c c c	office woulder do the balance		MILL	CATION FEST A	SIGM BZ	21-14	7	
Alloy Lost Date Ultimate Tensile Yield Strength Percent Hardness Condition	Mechanica	I Pro	erties														3				
Composition Nov/28/2017 A2.80 39.80 10.00 86.0,86.8,87.6 10.01 10.02 10.02 10.03 1	Lot		Allox	,			Test	Date	חבר	nate Te	alistic	Yield S	trenoth	ī	ercent		ness		Š	Conductivity	
nical Composition Si Fe Cu Mo Mg Cr Ni Zn Ti Ga Y B Zr Bi Pb Sn Sr C Rober Lot Allox Si Fe Cu Mo Mg Cr Ni Zn Ti Ga Y B Zr Bi Pb Sn Sr C A.11 6061 0.58 0.15 0.2 0.03 0.86 0.07 0 0.01 0.02 0 0 0 0 0 0 0 0 0 0	A.11		1909	3			Nov/	28/2017	nl n	renom	42.80		39.80		10.00		Well F 86.8,87.	s de			
mber Los Allox Si Ee Cu Mo Mg Cr Ni Zn Ti Ga Y B Zr Bi Pb Sn Sr C	Chemical (Comp	osition	H																	
A.11 6061 0.58 0.15 0.2 0.03 0.86 0.07 0 0.01 0.02 0 0 0 0 0 0 0 0 0	Cast Number	tol 1	Allox	(K)	ᆁ	3	맹	ឡ	ä	2	Zn	H	3	×	21	2	a	S	গৈ	8	Other
	387163			0.58	0.15	0.2	0.03	98.0	0.07	0	0.01	0.05	0	0	0	0 0	0	0	0	0 Remainder	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

Tulsiram Mohabir Quality Control Manager

1 - CUSTOMER COPY

SPA

Service Center Metals

5850 Quality Way Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR GROCE HUMBER

289111

	-
Ma	4 15
the	USA

327862 PL0741 3/30/2017

Customer Po C74189 Cost-Tests D.Schroeder (Canada)

Quantity Certified 2,032 lbs 12 pcs V832861-PL0741 PL 1.089 x 12.000

We hereby certify that the material covered by this report has been inspected in accordance with the most-focent certification revision, and has been found to meet the applicable requirements described harein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties Tests Lot No.	R052115-116	Tost Date	<u>Uttimate</u> <u>Strengt</u>		Yield S			aution
1 201704837	1,402,10-1110	3/30/17	min 50.40	max 50.40	min 46.50	max 46.50	min 16.60	max 16.60

Chemical C	omposido	1017	a within	2111 2-010	y 000 i							Off	hers	
Cast#	Lot No.	Alloy	Si	<u>Fe</u>	Cu	Mn	Ma	<u>Cr</u>	<u>Zn</u>	Ti	AL	Each	Total	Melt Source:
001M170313A	201704837	6061	0.75	0.38	0.33	0.10	0.89	0.10	0.07	0.03	97.36	0.05	0.15	United States of America
			_				_		٠.٧	0 11	۸			Print Date: 3/30/20

SCM products are molted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Play 6/8/10

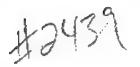
11

MILL TEST										<u> </u>	3	7	7					
SMP TO		6	110 CEN	SATS CUSTOMER PO			DIE NUMBER S ALLOT	1 40 1		DATE OF SHIPMENT Sep/29/2016 SALESMAN	ENT		197683 - 17	3 1	ORDER NO.	o		1FEST NO. 357684
ACIER OUELLETTE so description 1.250" SQUARE			2 8 2	100664 customer Pu DT04763	100664 customer part mimber DT04763		ART DESCAPPEN 1.250" SQUAF	AT DESCAPRION 250" SQUARE		HOUSE ACCOUNTS	COUNT		CERTIFICATION MILL TEST ASTW 8221-14	TAST	MADE IN CANADA ASTM 8221-14	4 4	ADA (
Mechanical Properties	ies					1						١					ı	
707	Alloy			Ies	Test Date		Ultimate Tensile		Yield Strength	dignaria	Per	Percent	Hardness	.21 =		Condi	Conductivity	
A.11	6061			Sep	Sep/22/2016		44.70	44.70		39.60	10.80	10.80	89.9,90.4,90.7	4,90.7				
Comp	Н	L		,			:		١									
160973418 A.11 6061	_	0.55 0.17	62 E	0.01	0.0 0.0	S E	2 0	10:0	10.0	g °	0 K	7 0	a 9	<u>ක</u> ං	Si o) 기 ·	Co Al 0 Remainder	Other
	13																	

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale Quality Control Manager

1 - CUSTOMER COPY





GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,

BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954 Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: 25 March, 2017

Consignee: SINGBEC TRADING INC.

4455 RUE COUSENS SAINT-LAURENT, QC, H4S 1X5, CANADA

PO number: P-17025 Shipping Ref No.: 17-0459 LC No.: DC HMN710996 Date of issue: 15 March, 2017

Item Code: (906000 Die Number: D00242_

Alloy & Temper 5061-T6511 Production Descriptions FLAT BAR 15000" X 2.5000" X 12 6061-T6511 D00242

Length (inch): 144

Bundle number: P-17025-009

Heat NumbertSXD170240

Date: 3/6/2017

Applicable Specifications ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Pe	Cu	Ma	Cr	Zn	117	Al	EACH O	TOTAL	Remarks
0.623	0.928	0.206	0.267	0.016	0.101	0.011	0.021	97.732	<0.05	<0.10	3/3/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
40.7	35.4	10.9	3/3/2017

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÀM KIỂM NGHIỆM CÔNG TY TNHH NINÔM TOÁN CẦU VIỆT NAM GLOBAL VIETNAM ALUMINIUM CO.. LTD TESTING CENTER R 211559

MILL TEST											F	Ph 38/	8	-					9
SHIP TO				CENT CODE:	CENT CODE:		No.	S ALLOY GOOT	2222 TEMPER TR	Nov/03/2 Nov/03/2 EALESMAN HOUSE	Nov/03/2016 SALESMAN HOUSE ACCO	Nov/03/2016 Nov/03/2016 ALESMAN HOUSE ACCOUNTS		198958 — 1 MADE	B - G	OKUEK NU. MAN - 1 MADE IN CANADA	CAN	359787 4DA	87
ACIER OUELLETTE SO DESCRIPTION 1" X 3/8" FLAT BAR				CVST	CUSTOMER PAR	CUSTOMER PART NUMBER DT02222		PART DESCRIPTION 1" X 3/8" FLAT BAR	FLAT	SAR				GENTPICATION MILL TEST ASTM B221-14	T AST	M 8221	4		,
Mechanical Properties	perties																		
Lot	Allox				Lest	Test Date		Ultimate Tensile		Yield Strength	(KSI)	Percent. Flonoation		Hardness Rockwell F	SS = E		Cond	Conductivity	
A.11	6061				Oct/2	04/27/2016	1		43.50		39.30		18.40	86.2, 88	86.2, 88.5, 87.9				
Chemical Composition	osition											,			á			3	2
Cast Number Lot	Allox	₹,	3	3	Mo	S	ä	3	S	F	3	mi ×	77	2	S	N ·	וכ א	3	SAINE.
384191 A.11	1909	9.0	0.18	0.2	0.03	98'0	0.07	0	0.01	10'0	0	0	0	0	0	P	0	0 Kemanoer	9

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale Quality Control Manager

1 - CUSTOMER COPY

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer:

LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address :

4054 BOUL LE CORBUSTER # 201

LAVAL QC H7L5R2

commande Sapa / Sapa order # :

6110739

bon de commande / Purchase order # : OU-47005

de matrice / Die #: M\$ 16838

Description SQUARE BAR 1.500"X1.50"

Alliage & trempage / Alloy & temper:

Longueur / Lenght: 6097 mm 6061 16

de contrôle / Control #: 80133-1

de coulée / Cast # :

Min. requis /

Max. permis /

Dureté Rockwell E /

Max. permitted: 100 HRE

Rockwell E hardness: 95 HRE

Min. required: 88 HRE

Composition chimique typique / Typical chemical composition:

68055

Comp					Mg	CI	Zn	YF
	Si	Fe	Cu	Mn			0.10 Max	0.10 Max
1063	0.20 - 0.60	0,35 Max	0,10 Max	0.10 Max	0.45 - 0.90	0,10 Max		0.10 Max
		0.35 Max	0,10 Max	0.10 Max	0.40-0.60	0.10 MOX	0,10 Max	
1005	0.60 - 0.90		0.08 - 0.16	0.18 - 0.26	0.46-0.54	0,03 Max	0.05 Max	0,05 MQX
6005A_	0,66-0.74	0.14 - 0.28	-		0.80 - 1.20	0,04-0,35	0.25 Max	0,15 Max
4041	0,40 - 0.80	0.70 Max	0.15-0.40	0,15 Max			0.20 Max	0,20 Max
4361	0,7 - 1,3	0.5 MOX	0,10 Max	0,40 - 0,80	0.40 - 0.80		G.AN IVIGIN	

Nous certifions que le matériel foumi rencontre les exigences chimiques telles qu'annoncées par la norme (ASTM 8-221-14 excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM 8-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre,

date: 2014-12-15

Yours truly,

Gilles Pelletier Technicien de la qualité

Quality technician

			CERT	CERT CODE:		0	DIE NUMBER	œ	DATE	DATE OF SHIPMENT	CENT.			0	ORDER NO.	Ö	MANIFEST NO	2
			-			-	S	4769	Jan	Jan/19/2017	7		2013	201364	-		262	262040
ACIER OUELLETTE			CUSTOME, 102749	СИSТОМЕЯ РО 102749		36	100g	Metalle 16	1	SALESMAN HOUSE AC	SALESMAN HOUSE ACCOUNTS	S		MA	DEM	CAL	MADE IN CANADA	100
SODESCRIPTION 3" X 1.5" FLAT BAR			SOS	CUSTOMER PAU SO04769	PARTHUMBER		3" X 1.5" FLAT	ARTDESCRIPTION 3" X 1.5" FLAT BAR	BAR	3	0		CERTIFICATION MILL TEST ASTM 8221-14	ST AS	TM 82	21-19	,	
									1	-						1	N	7
Mechanical Properties						ı												
Lot				Test Date	Date		Ultimate Tensile	nsile	Yield S	Yield Strength	a l	Percent	Hardness	ESS.		Conc	Conductivity	
A.11 6061	S S	1		Jan/1	Jan/12/2017	71	42.40	42.40		39.00	FIOUS	tiongation 13.70	86.0,86.1,86	Rockwell F 86.0,86.1,86.3				
Chemical Composition															l			
Cast Number Lot Alloy	(FI)	H	a	A	2	ŭ	2	Ş	H	3	>	77	面	ଶ	S	걺	S A	Other
384719 A.11 6061	9.0	0.14	0.14 0.19	0.03	98 0	90.0	Ф	0.01	0.01	0	0 0	0	0	0	0	0	0 Remainder	

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale Quality Control Manager

1 - CUSTOMER COPY

V-ES11-1127-V

MATERIAL M600 DATE:			3.000×01.500 PO:BATCH NO. 038785/5033
MATERIAL CERT REC'D. QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	12	95	THICKNESS ORDERED: 01.500 THICKNESS RECEIVED: 01.500 SHEET SIZE ORDERED: 1/A SHEET SIZE RECEIVED: 1/A
DESCRIPTION	(Ch	CR leck (N)	COMMENTS
SURFACE DAMAGE	Y	IN	
CORRECT FINISH	(7)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	Y	N	
ORRECT MATERIAL PER M-DRAWING	(A)	N	Astm A221
CORRECT THICKNESS	(3)	N	
PHOTO REQUIRED	Υ	M	
CORRECT REF # TO LINK CERT	(7)	N	Hest# 384719
PRRECT MATERIAL IDENTFICATION	(3)	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(KI)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(Z)	

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
F	RECORD RES	ULTS BELOV	V		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS 11	SIGNED OFF BY:
DATE:	9-89 JAN 1 9 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

 \Box

SPECIFICATION: PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

U

M6061T6B T.TTT X WW WWW

PART NUMBER:

B

WHERE "T.TTT" = THICKNESS IN INCHES
"WW WWW" = WIDTH IN INCHES THICK WIDTH

E.G. 1.0" X 12.0" BAR = M6061T6B1 000X12.000

B REMOVE OCA-250/11 OPTION, REFORMAT NOTES, ADD
ASTM B211/B221 (ZN D7-1) APPROVED MFG APPR. CHECKED NEW ISSUE M6061T6B 6061-T6 BAR DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DS 01 08 08 CP SHEET 1 OF 1 DATE 09 07 13 REV. B SCALE

DATE ,

09.07.13

DRAWN DESIGN

COPYRIGHT @ 2001 BY DART AEROSPACE LTD
THIS DISSABILITE SHEWLT SHOT SHEWLT SHEW

STN

MATERIAL CERT REC'D: QUANTITY RECEIVED:	2011	5	THICKNESS ORDERED: 1500
QUANTITY INSPECTED:	8		SHEET SIZE ORDERED: U/A SHEET SIZE RECEIVED
	TNO	OR.	
DESCRIPTION	(Ch	eck (N)	COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(9)	N	
CORROSION	Y	M)	
CORRECT GRAIN DIRECTION	W	N	
RRECT MATERIAL PER M-DRAWING		N	Aston 13221
CORRECT THICKNESS	V	N	
PHOTO REQUIRED	Y	N	-1-1-1-2-3
ORRECT REF # TO LINK CERT	(2)	N	Hest# 68055
RECT MATERIAL IDENTFICATION		N	
	(9)	N	
ORRECT M# ON THE MATERIAL		-	
OES THIS MATERIAL REQUIRE	1 1/		
OES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF DOES THIS REQUIRE AN	Y		

CUT SAMPLE PIECE OF				SS CHECK.	
	RECORD RES	SULTS BELOV	/V		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
	DAS	
INSPECTED BY:	11	SIGNED OFF BY:
DATE:	9-89JAN 1 9 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR OQ.A-225/8 OR AMS-QQ.A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ.A-200/8 OR AMS-QQ.A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

M6061T6B T.TTT X WW.WWW

8

SPECIFICATION:

PART NUMBER:

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES THICK HTOIW

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DATE 09.07.13 DRAWN APPROVED MFG. APPR. CHECKED B REMOVE QQ.A.250/11 OPTION, REFORMAT NOTES, ADD
ASTM B211/B221 (ZN D7-1)
A NEW ISSUE M6061T6B DESCRIPTION 6061-T6 BAR COPYRIGHT © 2001 BY DART AEROSPACE LID THAT DOMESTIC OF THE CONTROL OF THE CONTRO DART AEROSPACE LTD g DS BY REV. B SHEET 1 OF 1 SCALE 01 06 08 DATE 09 07 13

 \Box

MATERIAL Z	14606 (H6 BO. 73) JAN 19 2018	<u>'0 x</u> 03,000 	PO / BATCH NO.	38785/503341	7
MATERIAL CERT REC'D: _ QUANTITY RECEIVED: _ QUANTITY INSPECTED: _ QUANTITY REJECTED: _	7.es 20'' 20''	THICK SHEE	KNESS ORDERED: _ KNESS RECEIVED: _ T SIZE ORDERED: _ T SIZE RECEIVED: _	0.750 0.750 N/A N/A	

DESCRIPTION	(Ch	CR eck N)	COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(2)	N	
CORRECT MATERIAL PER M-DRAWING	P	N	
CORRECT THICKNESS	(8)	N	
PHOTO REQUIRED	Υ	(N)	
CORRECT REF # TO LINK CERT	(9)	N	Hest# 36740
CORRECT MATERIAL IDENTFICATION	(3)	N	
CORRECT M# ON THE MATERIAL	(V)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	3	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(N)	

CUT SAMPLE PIECE OF				SS CHECK.	
F	RECORD RES	SULTS BELOV	V		
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

OC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: JAN 1 9 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

O

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

B

PART NUMBER:

M6061T6B T.TTT X WW.WWW

SPECIFICATION:

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000 WHERE "T.TTT" = THICKNESS IN INCHES
"WW WWW" = WIDTH IN INCHES THICK HTOW

DATE DRAWN DESIGN REV B REMOVE QQ.A.250/11 OPTION, REFORMAT NOTES, ADD ASTM BZ11/B221 (ZN D7-1) 09.07.13 HAWKESBURY, ONTARIO, CANADA DRAWING NO. SH 6061-T6 BAR DART AEROSPACE LTD COPYRIGHT © 2001 BY DART AEROSPACE LTD

TO PRANT OF CONFIGURAL AND 6 MAPS CO ON THE LAPSE SE COMMOTHER HALL HE PROMETED AND CONFIGURATION OF THE PROMETED HALL HE PROMETED HALL ÇP SO SHEET 1 OF 1 01.06 08 DATE 09.07.13 REV. B

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MATERIAL M600	JAN	46 E	30-37/x01.250 PO BATCH NO 038785/2033
MATERIAL CERT REC'D. QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	1-e 60'50'	5	THICKNESS ORDERED 375 THICKNESS RECEIVED: 375 SHEET SIZE ORDERED. N/4 SHEET SIZE RECEIVED: N/A
DESCRIPTION	(Ch	CR neck	COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	(Y)	N	
ORRECT MATERIAL PER M-DRAWING	Y	N	Aston 6221
CORRECT THICKNESS	Y	N	**
PHOTO REQUIRED	Y	W	
CORRECT REF # TO LINK CERT	C	N.	that It 201701926
RRECT MATERIAL IDENTFICATION	Y	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	1	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
R	ECORD RES	ULTS BELOV	N		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 16 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	11	SIGNED OFF BY:
DATE:	JAN 2 2 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Service Center Metals 5850 Quality Way

5850 Quality Way Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

Can Do.	TTWAC O	O Bo, VA 20	1013		he USA.	284260	
	-		321955	RB0082	2/7/2017	ASTM-B221-14 No S	tencil
			C73927	6061-T8511	D.Schroeder (Canada)	AMS-QQA-200/8 Rev-	A
Quantity Certified	1,214 lbs	110pcs	CUSTOMER PART MUNICA	CCDB 375-1 250		1000 000 12000 1001	71

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and cartified as 6061-76511 also meet the requirements of 6061-76.

This product is ROHS-2, REACH, and DEARS compliant.

Mechanical Properties Tests for No.	R\$10342	Test Date	<u>Ultimate</u> <u>Strengt</u>		Yield 8			cent gation
2 201701928		<i>2/11</i> /17	min 43.60	max 43.80	min 38.70	rnax 40.40	min 15.60	max 15.80

Chemical Composition for Aluminum Alloy 6061														
Cast#	Lot No.	Alloy	Si	<u>Fe</u>	Cu	Mn	Mg	Cr	Zn	Ii	AL	Each	Total	Melt Source:
002K170122B	201701926	6061	0.61	0.22	0.18	0.07	0.85	0.07	0.01	0.02	97.98	0.05	0.15	United States of America
SCM products a	are melted and	extrude	ed in the	USA				Cabrin	1	a Ju	Acres of Que	illy & Tach	aleal Con-	Print Date: 2/7/2017

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B22T

B

SPECIFICATION:

PART NUMBER:

M6061T6B T.TTT | X | WW WWW

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES THICK WIDTH

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DRAWN CHECKED MFG. APPR. B REMOVE 0Q-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)

A NEW ISSUE HAWKESBURY, ONTARIO, CANADA
M6061T6B
SH 6061-T6 BAR DART AEROSPACE LTD BY DART AEROSPACE LID SQ Ç SHEET 1 OF 1 DATE 09.07.13 01.08 08 REV. B SCALE

DESIGN

09.07.13

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Customer's Signature

Date

M6061+6B2.500×01.500 PS BATCH NO 038 783/503340

1	THICKNESS ORDERED: 01.500
QUANTIN (ELETYET	SHEPT SIZE DREFERED NA
QUANTITY FILE OF 0	SHEET SIZE RECEIVED. NA
	NCF
,	TOM ALATS
	0 Astan 6221
CORRED 1 Exited Character	Y N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
R	0.1 4.16.604.155.04
CC .	Heat # 50x 170,240
CORPL. AS AN INCIDENTAL	Ŏ
DOES THINK I	
DOES THE RESUME AT	
ī	CHICATE TO PREFORMA HARDNESS CHECK
	HRS HRB DURA DURD WEBSTER
TYPE OF WORLD AMELE	
SIZE OF THE TANK I	
HARDNESS (CURGMUTE) READI	testers located in the Quality Office
	And the Control of th
DAS	ENDINEERING SIGNOFF (If required)
DAS 11	

Attagnition in section in the notice progression motorial contained remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: 6061-76/7651/76510/76511/762 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-OQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-OQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR RSTM B221

PART NUMBER:

M6061T6B T.TTT | X | WW.WWW

WHERE "T.TTT" = THICKNESS IN INCHES "WW WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

00	REMOV ASTM B	E 00-A-250/11	REMOVE 00-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	d	09.07.13
V	NEW ISSUE	SUE		80	04 08 00
REV			DESCRIPTION	2	DATE
DESIGN	_	SQ	DADT AEDOCEATE	OE I	
DRAWN		00	HAWKESBURY ONTARIO CANADA	CANAC	۽ د
CHECKED	9	AUC	DRAWING NO.		0 710
MFG. APPR	PPR.		M6061T6B		CUEET 4 OF 4
APPROVED	VED	25	TITLE		STEEL OF S
DE APPR	œ		6061-T6 BAR		NIA OTA
DATE	000	00 07 43	COPYRIGHT © 2001 BY DART AEROSPACE LTD	ROSPACE	570

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	×	CP V				
ORRECT MAT. AL		N	# 160°	97.341B		
E		0				
·			- 42			
1 ()	SAME DEDECT	MATERIAL A	ND PREFORM	A HARDNESS	CHECK.	
			170	DUR A	DUR D	WEBSTER
EO:						
C / N N N N N N N N N N N N N N N N N N	· La NC	esters located in	the Quality Office			

Attach this inspection spect with the corresponding material cert and remit to be scanned and received in

SIGNED OFF BY

DATE:

9-89JAN 1 9 2018

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

0

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

B

SPECIFICATION:

PART NUMBER:

M6061T6B T.TTT X WW.WWW

THICK

WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

MFG APPR DRAWN REV DESIGN B ASIM B211/B221 (ZN D7-1) 09.07.13 DRAWING NO SH 6061-T6 BAR COPYRIGHT © 2001 BY DART AEROSPACE LTD DART AEROSPACE LTD CP SQ SQ SHEET OF 1 01 06 08 DATE 09 07 13 REV. B SCALE

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MATER AND DITER DO COMMENT OF AND INCOME STEELS OF AND	12'1' 12'1'	THICKNESS ORDERED 1.000 HAIC NESS RECEIVED: 1.000 SHEET SIZE DREFERED: N/A SHEET SIZE RECEIVED: N/A
· · · · · · · · · · · · · · · · · · ·	NOP (Object)	COMMENTS
DOS /	- C	7-B221 # 701704837
Y 1 MARQA	KE NORT LITERIO	AND PREFORM A HARDNESS CHECK. 1. TS BELOW HRB DUR A DUR D WEBSTER the Quality Office
The state of the s	DAS 11 12 JAN 19 2018	

Attual to the light his agent with the corresponding material cert and remit to be scanned and received in

RELEASED ZOOS -05- 03

REV. B SHEET 1 OF 1 09.07.13 01 06.08 DATE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
MG061T6B 3 SO REMOVE DO A 250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) 6061-T6 BAR NEW ISSUE APPROVED DE APPR. DATE OQ DESIGN DRAWN CHECKED MFG APPR REV

COPYRIGHT @ 2001 BY DART AEROSPACE LTD

09.07.13

PURCHASE MATERIAL: 6061-76/7651/76510/76511/762 ALUMINUM BAR

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QCA-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221 SPECIFICATION:

M6061T6B T.TTT X WW.WWW

WIDTH THICK

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000 WHERE "T.TT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

PART NUMBER:

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SPECIFICATION CONTROL DRAWING

	JAN 19 ZI	(B1.000×04.000 PD BA.CHNO. 38785/503)
, 4	Ves	THE KNESS ORDERED 1.000
QUARTITE	USIVED 121	THICKNESS RECEIVED. 1.000
QUANTITABLE	4.4	SHERT SIZE DROERED 1/9
QUANTITY ?.		SHEET SIZE RECEIVED N/A
	NOF Char	
JOF T -	· · · · · · · · · · · ·) 3
CORREG	1 - R/ ,1N/-	Astus BO21
<u>CO</u> //	8	Hest #-387163 3B7163
1.)T., T.	· · · · · · · · · · · · · · · · · · ·	<u>(1)</u>
.,	¥-{	<u></u>
	- · TOF N	MODREFORM A HARDNESS CHECK.
-		PRO TRUE DUR A A DUR D WEBSTER
TYPEC	,	
SIZE OF T HARDNESS / DUN	CMUTER READING	
	<u>test</u> e	ers located in the Quality Office
Oleman .	DAS	ENGINEERING SIGNOFF (If required)
i ^t ()	.11	SIGNED OFF BY
	9-89JAN 1 9 2018	DATE

Attach this inspection sheat with the corresponding material cert and remit to be scanned and received in

RELEASED ZOOS -05- 03

REV. B SCALE SHEET 1 OF 1 CP 09 07.13 DS 01 06 08 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
MGO61T6B
SHEE REMOVE OQ.4-350/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) MFG APPR. CHECKED DESIGN REV

COPYRIGHT © 2001 BY DART AEROSPACE LTD REPORT AFROSPACE LTD 6061-T6 BAR DE APPR. DATE 09.07.13 APPROVED

NTS

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QC-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQA-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B T.TTT | X | WW WWW WIDTH THICK

WHERE "TITT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

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E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

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M606146BB 500X12000

PO / BATCH NO 0387 5033906

MATER OF THE FOR	Ves	THICKNESS ORDERED: 0.500
QUANTE LECEIVED	1211	THICKNESS RECEIVED 0.500
QUANTI YILL PLOTED	12''	SHEFT SIZE DRDERED WIT
QUANTITY PT TEMPED	8	SHEET SIZE RECEIVED

		NCP :	COMMENTS	
	· · · · · · · · · · · · · · · · · · ·	Y/V		
		Y O		
CORRECT A	N	No S Astm	B771	
TOF.		(Hert T	\$ 200108157 200108157	
00 ML				
DOE Y		Y 🐧		
1		Y >3		

	CENA EDI	ND PREFORM A HARDNESS CHECK.
	- · · · · · · · · · · · · · · · · · · ·	HRB DUR A DUR D WEBSTER
TYPE C SIZE OF 158" Booker	-	
HARDNESS SURGMUTTER READIN	1C	

testers located in the Quality Office

OC SHELL CONTRACTOR OF THE STATE OF THE STAT	ENGINEERING SIGNOFF (if required)
INSPECIED BY 11	SIGNED OFF BY
9-89JAN 19 :	DATE

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

PART NUMBER:

M6061T6B T.TTT X WW.WWW

THICK

WIDTH

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

WHERE "T, TIT" = THICKNESS IN INCHES
"VWW.WWW" = WIDTH IN INCHES

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E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

PELEASED

	S CHADLEDA BAY U.S.	DEROSPACE	THE PROPERTY OF THE PROPERTY O	09 07 13	2 60	DATE
	N. C.		6061-16 BAK	1	PA	DE APPR
	SCALE		TITLE	33	ONED	APPROVED
	SHEET 1 OF 1		MOUDITOD	>	APPR.	MFG APPR
	REV. B		DRAWING NO.	200	ÉD	CHECKED
		O, CANAI	HAWKESBURY, ONTARIO, CANADA	9	Z	DRAWN
>	Ö	CEL	DART AEROSPACE LTD	DS	Z	DESIGN
	DAILE	ВҮ	DESCRIPTION			REV
	01.06 08	SO		SUE	NEW ISSUE	>
	09.07.13	ક	REMOVE QQ.A.250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	REMOVE QQ-A-250/11 OPTI ASTM B211/B221 (ZN D7-1)	ASTM B	œ

	M6061 + 6 BO 500	2×1.500 PO BATCH NO. 038785 /50339
MATER AT LINE REPORTED QUANTITY INSPECTED QUANTITY FELECTED	20" 20" 20"	THICKNESS CRDERED: 0.500 THICKNESS RECEIVED: 0.500 SHEET SIZE RECEIVED: N/A SHEET SIZE RECEIVED: N/A
	NCR	COMMENTS
COMPE IN A SECOND CORRECT OF THE SECOND COMPE IN A SECOND COMPE IN	AMNO WIN AST	m B221 H+68295
	FOR MATERIAL	ND PREFORMA HARDNESS CHECK.
YCL IZE OF TA: ARDNESC / DUROFICTE		TRB DUR A DUR D WEBSTER In the Quality Office
	PAS	SIGNED OFF BY

Attach the property of a rest to the the corresponding material cert and remit to be scanned and received in

DATE

RELEASED 2009 -05- 03

REV B SHEET 1 OF 1 CP 09:07:13 DS 01 06 08 BY DATE COPYRIGHT © 2001 BY DART AEROSPACE LTD
COPYRIGHT © 2001 BY DART AEROSPACE LTD
TO DART POSSITIVE AND CONTROL AND REPRESENTANT AND THE STATE OF THE STATE AND THE STATE OF THE S DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO
M6061T6B
STHEFT B REMOVE DO-A-25011 OPTION, REFORMAT NOTES, ADD ASIM B2118221 (2N D7-1) тте 6061-T6 BAR 09.07.13 MFG. APPR.

APPROVED
DE APPR.
DATE
DO O CHECKED DESIGN DRAWN REV

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6211/T62 ALUMINUM BAR

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221 SPECIFICATION:

M6061T6B T.TTT | X | WW.WWW WIDTH THICK

WHERE "T.TTT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

PART NUMBER:

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SPECIFICATION CONTROL DRAWING

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* :	M606146BOJC JAN 19 2018	DOXO6.000 PO BATCH NO 038785/5033404
MATER AT HE TIPLES QUIN TO THE PROTECTION QUANTITY REJECTED		THICKNESS ORDERED: 0.500 IMICANESS RECEIVED. 0.500 SHEET SIZE RECEIVED MA
	NCP ! (Check Y/ V	COMMENTS
CORPY IN ALTERNATION OF THE CORPY CO	NO Has	tm B221 t# 36629
$\frac{\text{DOC}(1)}{\text{DOC}} = \frac{1}{10000000000000000000000000000000000$	<u> </u>	
TYPE C SIZE OF HARONED STORY	OF NW EF.	IND PREFORM A HARDNESS CHECK. IND DUR A DUR D WEBSTER In the Quality Office
	DAS TO STATE OF THE STATE OF TH	ENCINEERING SIGNOFF (If required)
INSERTION SY	9-89 JAN 1 9 2018	SIGNED OFF BY: DATE

Attach this inspection street with the corresponding material cert and remit to be scanned and received in

RELEASED 2008 -05- 03

REV. B SHEET 1 OF 1 09.07.13 01.06 08 DATE DART AEROSPACE LTD
HAWKESBURY, ONTARIO. CANADA
DRAWING NO.
SHEET COPYRIGHT © 2001 BY DART AEROSPACE LTD 9 B REMOVE OQ.A.25011 OPTION. REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) тпе 6061-T6 BAR 09.07.13 NEW ISSUE APPROVED
DE APPR.
DATE 00 MFG APPR. CHECKED DESIGN DRAWN

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

QQ-A-225/6 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/6 OR AMS-<u>QQ-A-2</u>00/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

0

M6061T6B T.TTT X WW.WWW PART NUMBER:

SPECIFICATION:

U

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

WHERE "T.TTT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

WIDTH

THICK

0

SPECIFICATION CONTROL DRAWING

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- State-	JAN 1 9 2018	_	
QUANTETY RECEIVED	70" 20" 20"	THE KNESS ORDERED CHICKNESS RECEIVED. SHEET SIZE RECEIVED	3.500
	NCF.	COMMENTS	
CORRECT GRAIN CORRECT MATERIAL TRANSPORT CORRECT CORRE	Y N	n β221-14 # 33083	
17 (2 %) 18	TOTEDE OF MATERIAL /	AND PREFORM A HARDNESS CHE	CK.
TY 1 - U SIZE O- HARONL	-nervo	HRD DUR A DUF	RD WEBSTER
	testers located r	the Quality Office	
De Talik van Videllern	DAS 11	SIGNED OFF BY	GNOFF (if required

Attach this inspection spect with the corresponding material cert and remit to be scanned and received in

RELEASED 2009 -05- 03

SHEET 1 OF 1 05 01 06 08 DATE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T68 B REMOVE OQ.4.35011 OPTION, REFORMAT NOTES, ADD ASTM BY11821 (ZN D7.1)
A NEW ISSUE - 6061-T6 BAR MFG. APPR.
APPROVED
DE APPR.
DATE
09.07.13 CHECKED

DESIGN DRAWN REV

REV. B

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PURCHASE MATERIAL: 6061-16/1651/16510/16511/162 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-200/8 (OR AMS 4160) OR ASTM B211 OR (ASTM B221)

PART NUMBER:

M6061T6B T.TTT | X | WW.WWW WIDTH THICK

WHERE "T.TTT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

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E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

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SPECIFICATION CONTROL DRAWING

MATERIAL DESTREMENT QUANTITY IN PROTECTION QUANTITY IN PROTECTION	JAN 19 2018 Yes 40'1 40'1	THICK!	NESS ORDERI NESS RECEIV S'ZE DRDER SIZE RECEIV	ED: 0.3°	75 75 74
-	NCR (CI · · · · · · · · · · · · · · · · · · ·		COMMENT	S	
CORPELL IN CORRECT MATERIAL PERS AND CORRECT THE SECOND CORRECT CONTROL CORRECT CORREC	MN	m B221 + # 54f1	71944		
TYPE OF MALINAL	PIECE OF MATERIA E CORS HRC	L AND PREFORM LUITS BELC' HRB	1 A HARDNE	DUR D	WEBSTER
SIZE OF THUT SAMPLE HARDNESS (DUROMLITUR	READING testers locate	ed in the Quality Office	e		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

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M6061T6B T.TTT X WW WWW QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

PART NUMBER:

B

SPECIFICATION:

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES THICK HIGIW

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DRAWN MFG. APPR CHECKED DESIGN REV B REMOVE QQ.A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN 07-1) A NEW ISSUE 09.07.13 COPYRIGHT 9 3001 BY DART AEROSPACE LTD M6061T6B DESCRIPTION DART AEROSPACE LTD CP 09.07.13 BY SHEET 1 OF 1 01 06 08 DATE REV. B SCALE

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MATERIAL. DATE:	MGGG11650-250x6-250 JAN 2 2 2018	PO. BATCH NO. 038785/5033401
MATERIAL CERT RECIR.	Y-e5	THICKNESS ORDERED: 0-250
MATERIAL CERT REC'D:	725	0.20
QUANTITY RECEIVED:	24"	THICKNESS RECEIVED: 0-250
QUANTITY INSPECTED:	24'	SHEET SIZE ORDERED: NA
QUANTITY REJECTED	Ø	SHEET SIZE RECEIVED V/A

DESCRIPTION	NC (Che Y/N	eck	COMMENTS
SURFACE DAMAGE	Υ	(N)	
CORRECT FINISH	(7)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(4)	N	Hott
CORRECT MATERIAL IDENTFICATION	8	N	/
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE		_	
ENGINEERING SIGN OFF	Υ	(M)	
DOES THIS REQUIRE AN		0	
EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS	SIGNED OFF BY:
DATE	9-89 JAN 2 2 7019	DATE:

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PART NUMBER: SPECIFICATION PREFERRED SIZE: QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 EG. 0.063" THICK SHEET = M6061T6S.063 WHERE ".XXX" = SHEET THICKNESS (IN INCHES) M6061T6S .XXX XXX BY 4FT BY 8FT

B

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

			- ART		
00	REFORM	AAT DWG, ADD	REFORMAT DAYS, ADD 8208 SPEC (ZN D8-1), CP	-	09.07.13
	707 707	100.000		,	20 20 20
A	NEW ISSUE	SUE		ľ	
REV			DESCRIPTION	~	DATE
DESIGN	_	7	DART AEROSPACE LTD	ELT	0
DRAWN	_	8	HAWKESBURY, ONTARIO, CANADA	ANAD	A
CHECKED	ED	12.	DRAWING NO.		REV. B
MFG. APPR	PPR	11/11	M6067165	//0	SHEET 1 OF 1
ADDROVED	NED I	1/1/	TITLE		SCALE
Sddy 30	20		6061-T6 SHEET SPEC		STN
7 .	-		COPYRIGHT © 2001 BY DARY AEROSPACE LTO	SPACE	CAO MONOMON OF

09.07.13

M606 H6 BB 256 × 5.000 PC BATCH NO 038 785 5033500

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ENGINEERING SHON C DOEC THE REL

CORE

CORRE DOES

THICKNESS ORDERED. 6-230

LOTE - LANGE -	20'	SHEET SIZE ORDERHO WAS
[D7.d18	NCR (Check	COMMENTS
	0	
	Y	

TYPE OF MANUAL M			Of	MATERALA	ND PREFOR	V. A HARDNE	SS CHECK.	
TYPE OF ACTUAL HELD HERD DUR A DUR D WEBS				RECORD SES	ULTS BELOV	V		
Applie Sales				manufacture of the second seco	The same of the sa		DUR D	WEBSTER
	TYPE OF NO.	1 h-1.						
SIZE OF	SIZE OF	. /						-

testers located in the Quality Office

Q@Mehili		ENGINEERING SIGNOFF (if required)
ING.	11 14 9-89	SIGNED OFF BY
	JAN 1 9 2018	DATE.

RELEASED 2009 -05-03

REV. B SHEET 1 OF 1 09 07 13 01 06 08 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
NGOG 176B COPPRICHT © 2001 BY DART AEROSPACE LTD DS CP B REMOVE DQ.4.250/11 OPTION REFORMAT NOTES. ADD ASTM B211/B221 (ZN D7-1) - 6061-T6 BAR 09.07.13 A NEW ISSUE APPROVED DE APPR DATE 09 CHECKED DESIGN DRAWN REV

PURCHASE MATERIAL: 6061-76/1651/76510/76511/762 ALUMINUM BAR

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SPECIFICATION CONTROL DRAWING

SPECIFICATION: 00-A-220/8 OR AMS -00-A-225/8 (OR AMS 4117/4128/4115/4116) OR ASTM B211 OF ASTM B221 OF ASTM B

M6061T6B T.TTT X WW.WWW

PART NUMBER:

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WHERE "T. TT" = THICKNESS IN INCHES
"WW WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

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MATER AT LITED QUANTITY RECEIVED QUANTITY PRIEDTED QUANTITY PRIEDTED	7.65 20" 20"	THICKNESS ORD THICKNESS RECI SHEET SIZE, ORD SHEET SIZE RECI	EIVED: 0.2	30
	NCR (Chart Y/V,	COMME!	NTS	
CORE CORRECT MATERIAL PER IN CONTROL TELLONIC CORRECT	N A5T	m B221 + 5×4-160988	>	
TYPE OF MATTER WAS	RECOR!	/ ND PREFORM A HARDN	ESS CHECK.	WEBSTER
SIZE OF TEST SAMPLE HARDNESS / OUROMETER I	READING testers located	(in the Quality Office		

0

SPECIFICATION: PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR OC-A-225/8 OR AMS-OC-A-225/8 (OR AMS 4117/4128/4115/4116) OR OC-A-200/8 OR AMS-OC/A-280/8 (OR AMS 4160) OR OS IN BZ 11 OR AS IM BZ21

B

PART NUMBER:

M6061T6B T.TTT | X | WW WWW THICK WIDTH

E.G. 1.0" X 12.0" BAR = M6061T6B1 000X12 000 WHERE "T.TTT" = THICKNESS IN INCHES
"WWW WWWW" = WIDTH IN INCHES

MFG APPR. DRAWN DESIGN B REMOVE OD.A.250/11 OPTION, REFORMAT NOTES, ADD CP 09 07 13 NEW ISSUE 09.07.13 6061-T6 BAR
COPPIGHT & 201 BY DART AEROSPACE LTD M6061T6B DART AEROSPACE LTD BY SHEET 1 OF 1 01 06 08 DATE SCALE

i de la companya de	ATERIAL RECE	PINSPECTION FOR	/IVI
. ii. 🔪	Mt-4140QT-RO	2.750 PO BAICHT	NO 038785/50333
· Control	JAN 1 9 2018		
MATER A COUNT EN COUNTY RECEIVED	20"	THICKNESS ORDER THICKNESS RECEIV SHELT SIZE DROER	ED: 0.750
QUANTITY FUECTED	8	SHEET SIZE RECEIV	ED: N/A
	NCR (Check Y/N)	COMMENT	S
CORRECT MATERIAL PER M-DE CORRECT THICKNESS PHOTO REQUIRE CORPTO RECUIRE CORRECT MATERIAL PER M-DE CORRECT MATERIAL PER M-DE CORRECT MATERIAL PER M-DE	ON HOW	the MSR573	g only. PD
DOES THIS MATERIAL RES ENC. 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y (0)		
CHT \$2.55 F	S DIECE OF MATERIA	L AND PREFORM A HARDNES	S CHECK.
	RECOR [®] T	HRB DUR A	DUR D WEBSTER
TYPE C SIZE OF No. 1981	population to the last to the		
HARDNE GOOD AND TO	MADING		
	<u>testers locate</u>	d in the Quality Office	
0648955 - 17.234 - 17.		ENGINEER	ING SIGNOFF (if required)
IN 3.	11	SIGNED OFF BY:	
	⁹ JAN 1 9 2018	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

BY APPROVED VM WM AISI 4140 Q&T ROUND BAR MT-4140QT-R 17.09.12 DATE ECAJ 17-655 PURCHASE MATERIAL: AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR REV. EG. 5/8" ROUND BAR = MT-4140QT-R0.625 MT-4140QT-R [D.DDD] WHERE "D.DDD" = DIÁMETER IN INCHES SPECIFICATION CONTROL DRAWING ASTM 4140 QT or ASTM 4142 QT SPECIFICATION: PART NUMBER:

M304R 0-750 JAN 19 2018		PO BATCH	NO <u>0387</u>	85/50333
QUANTITY TEUFORED QUANTITY TEUFORED QUANTITY TEUFORED	THIC	KNESS ORDEI KNESS RECEI IT SIZE ORDEI IT SIZE RECEI	VED: .75	0
COB FHICK, PS	A276 + 2494	COMMEN	TS	
TYPE C	ULTS BELOV	M A HARDNE	SS CHECK.	WEBSTER
SIZE OF HARDAL 1	the Quality Office	ce		

ENGINEERING SIGNOFF (if required) SIGNED OFF BY: 9-89 DATE JAN 19 2018

SPECIFICATION: PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR (NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION:

ASTM A276 PART NUMBER M304R D.DDD

B

O

EG. 0.75" ROUND BAR = M304R0.750 WHERE "D.DDD" = DIAMETER IN INCHES

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MFG. APPR.
APPROVED
DE APPR.
DATE 09

09.07.15

TITLE 1304/316 ROUND BAR NES CONTROLL TO STATE ARROSSAGE UD CONTROLL CONTROL CONTRO

DRAWN DESIGN

M304R

SHEET 1 OF 1

SCALE

REV. B

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA

B REFORMAT DWG, ADD SPECS (2N D6-1),
A NEW ISSUE DESCRIPTION

AJS 08 03 03 BY DATE

0

	71012R1.250 JAN 19 2018	PO BATCH NO. 038785/503339
MATER ALICEPT RECID	V29	THICKNESS ORDERED: 1.250
QUANTITY RECEIVED	204	THICKNESS RECEIVED 1.250
QUANTITY INSPECTED	20"	SHEET SIZE ORDERED WA
QUANTITY - JECTED	Ø	SHEET SIZE RECEIVED V/A
		,

NCR (Check Y/N)	COMMENTS
Y (N)	
(Y) N	
Y (D)	
(Y) N	
	95tm A108
N	y y
Y	
(M) N .7	Hast # 41892 AG
QIN	
(A) I N	
Y (N)	
Y (N)	
	(Check Y/N) Y N N N N N N N N N N N N N N N N N N N

TO SECIE C	F MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
	RECORD RES	ULTS BELOV	N		
	HRU	HRB	DURA	DUR D	WEBSTER
TYPE OF MANTE VAL					
SIZE OF TEST SAMPL	-				
HARDNESS / DUROMUTER READING					

testers located in the Quality Office

QC:18#	PW.	DAS'	ENGINEERING SIGNOFF (if required)
ING.	. 5V	11 9-89	SIGNED OFF BY:
	DATE.	JAN 1 9 2018	DATE:

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SPECIFICATION:

PART NUMBER:

MIL-S-7097 OF ASTM A108
M1018-R D.DDD WHERE D.DDD = DIAMETER IN INCHES DIA.

TOLERANCES

PER ASTM A108 AS FOLLOWS: EG 7/8" ROUND BAR = M1018-R0 875

SIZE UP TO 1.5" INCL. OVER 1.5" TO 2.5" INCL. OVER 2.5" TO 4.0" INCL. OVER 4.0" TO 6.0" INCL. OVER 6.0" TO 8.0" INCL.

TOLERANCE +0.000/-0.002 +0.000/-0.003 +0.000/-0.004 +0.000/-0.005 +0.000/-0.006

PURCHASE MATERIAL. AISI 1018-1025 ROUND BAR

MFG. APPR. DRAWN APPROVED DESIGN REFORMAT, ADD ASTM A108, ADD TOLERANCES NEW ISSUE 12.09.05 700 DART AEROSPACE LTD

HAWKESBURY, ONTARIO, CANADA

DRAWING NO.

M1018-R SHEE 1018-1025 ROUND BAR CP 12 09 05
DS 01.06 12
BY DATE SHEET 1 OF

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SCALE NTS

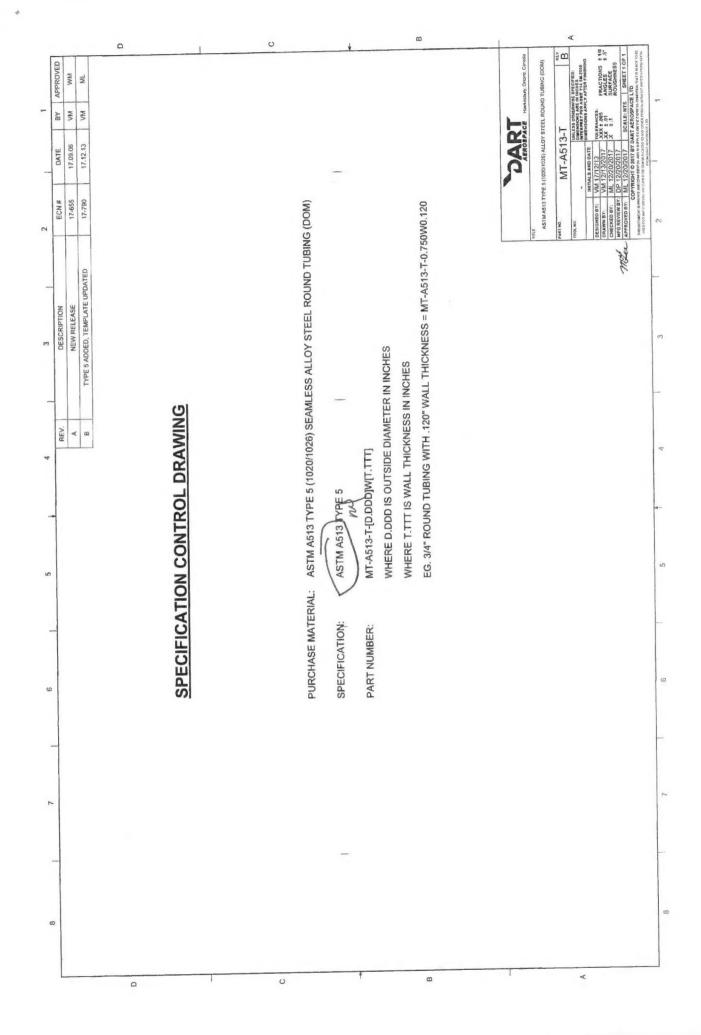
REV. B

MATERIAL MT-/ DATE MATERIAL CERT RECT QUANTITY RECEIVED QUANTITY INSPECTED QUANTITY REJECTED	451: AN 1 60	3-79 20	THICKNESS ORDERED: WO.120 THICKNESS RECEIVED: WO.120 SHEET SIZE ORDERED: WA.120 SHEET SIZE RECEIVED: WA.120
DESTRIPTION	NC (Ch Y/	eck	COMMENTS
SURFACE DAMAGE	Y	W	
CORRECT FINISH	R	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	(Y)	N	101. 15.2
CORRECT MATERIAL PER M-DRAWING	CY	N	45TM 751)
CORRECT THICKNESS	CY	N (N)	
PHOTO REQUIRED	(1)	N	Heat # D651089
CORRECT RE a 12 No FERE	A	N	THE TOURSE
ORRECT MATERIAL IDENTIFICATION	A	N	
CORRECT MA ON THE MATERIAL	. 0	14	Company of the Part of the Company o
DOES THIS MATERIAL REQUIRE ENGINEERING SION OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(2)	

CUT SAMPLE PIEC	RECORD RES	IND PREFUR	M	00 0.120	
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL			-		
SIZE OF TEST SAMPLE HARDNESS / DUROMETER READI					

testers located in the Quality Office

QC 18 INSPECTION TO	AND SERVICE TO THE TAR	ENGINEERING SIGNOFF (if required)
INSPECTED BY	11	SIGNED OFF BY:
DATE:	JAN 1 9 2018	DATE:



MATER	IAL	RE	CEIPT INSPEC	TION FOR	IVI	
MATERIAL MT-1	IAN	<i>3-1</i>	018	PO / BATCH N		
MATERIAL CERT RECU	15	(KNESS RECEIVE		
QUANTITY RECEIVED	201			T SIZE ORDER		A
QUANTITY INSPECTED 16	0				. /	Á
QUANTITY REJECTED	3		SHEE	T SIZE RECEIV	-0/1	/
DESCRIPTION		eck (N)		COMMENT	5	
SURFACE DAMAGE	Y	(1)				
CORRECT FINISH	V	N				
CORROSION	(4)	N				
CORRECT GRAIN DIRECTION	Ø		A5tur A513			
CORRECT MATERIAL PER M-DRAWING	(4)	N	1014.2)212			
CORRECT THICKNESS	Y	(0)				
PHOTO REQUIRED CORRECT RES # TO LINK CERT	(K)	N	Heat 1 0379	754		
CORRECT MATE CALIDEN IT OF HOL		N				
CORRECT M# ON THE MATERIAL	(A)	N				
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	0				
DOES THIS REQUIRE AN		0				
EXTRUSION REPORT	Y	R				
					20 01/50/	
CUT SAMPLE PIEC	E O	FMA	TERIAL AND PREFOR	RM A HARDNE	SS CHECK.	
		REC	ORD RESULTS BELO	U DURA	DUR D	WEBSTER
			HRC HRB	DONA		

CUT SAMPLE PIECE OF	FCORD DES	ULTS BELOV	N		
11	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING					

testers located in the Quality Office

OC 18 INSPECTION TO THE PARTY OF THE PARTY O	ENGINEERING SIGNOFF (if required)
INSPECTED 5 ^M . 11	SIGNED OFF BY:
DATE 9-89AN 1 8 2018	DATE:

0 FRACTIONS # 1/5 ANGLES # .5° SURFACE ROUGHNESS ASTMAS13 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM) WM BY N/ MT-A513-T 17.09.06 17.12.13 DATE 17-655 ECN# PURCHASE MATERIAL: ASTM \$543 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM) EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120 TYPE 5 ADDED, TEMPLATE UPDATED NEW RELEASE DESCRIPTION WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES WHERE T.TTT IS WALL THICKNESS IN INCHES SPECIFICATION CONTROL DRAWING REV. MT-A513-T-[D.DDDJW[T.TTT] ASTM A513 TYPE 5 က SPECIFICATION: PART NUMBER: 0 0

0